

By Category PDF

Category LED

Opto Devices

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SMD LEDs

ROHM's chip LEDs are designed for automatic surface mount processes and are available in a wide variety of package sizes (from 1.0x0.6mm)

Red (L, V, U) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10.0	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2500	2500 to 3120
Mini-mold	1006	0.2	1	SML-P11VT (R)																	
			20	SML-P11UT (R)																	
	0.36	20	20																		
			20																		
	1608	0.55	2	CSL1901VW																	
			20	CSL1901UW																	
	20125	0.8	20																		
			20																		
	3020	1.3	20																		
			20																		
Reflector	20125	0.8	20																		
			20																		
PLCC2	3528	1.9	50																		
			20																		
Side View (mold)	16115	0.55	20																		
Reverse Mount	34125	1.1	10																		
Lens	1608	1.24	20																		
			20																		
Lens	3216	1.85	20																		
			20																		
Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	4.5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 12	12 to 14	14 to 16	16 to 18	18 to 20	20 to 22	22 to 25						
Lens	2924	3.1	20																		

Orange (D) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) I_f (mA)	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10.0	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800	
Mini-mold	1006	0.2	1			SML-P11DT (R)															
	1608	0.36	20										SML-P12DT (R)								
			20									SML-E12DW*									
		0.55	2				CSL1901DW														
			20														SML-D15DW				
	20125	0.8	20																		
	20125	0.8	20																		
Reflector	3020	1.3	20			SML-010DT															
			10																		
		20																			
			20																		
	PLCC2	3528	1.9	50																	
Side View (mold)	16115	0.55	20																		
Reverse Mount	34125	1.1	10																		
Lens	1608	1.24	20																		
	3216	1.85																			

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (cd) I_f (mA)	6 to 7	7 to 8	8 to 9	9 to 10	10 to 12	12 to 14	14 to 16	16 to 18	18 to 20	20 to 22	22 to 24	24 to 27	27 to 30	30 to 33	33 to 36	36 to 40	40 to 45	45 to 56
Lens	2924	3.1	20																		

*Please note that the luminous intensity of some products may fall between ranks (half rank).

*1 Luminous intensity on specification sheet include tolerance of within ±10%. Note: Please be sure to refer the specifications about the rank.

Yellow (Y, W) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10.0	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800
Mini-mold	1006	0.2	1					SML-P11YT (R)					SML-P12YT (R)							
			20										SML-P12Y2T (R)							
		0.36	20										SML-P12YT (R)							
			2										SML-E12Y8W							
	1608	0.55	20			SML-D11YW														
			2			SML-D12W8W (A)*														
			20				CSL1901YW													
			20																	
			20																	
			20																	
Reflector	20125	0.8	20																	
			20																	
			20																	
			20																	
	3020	1.3	20																	
			10																	
			20																	
			20																	
			20																	
			20																	
PLCC2	3528	1.9	50																	
Side View (mold)	16115	0.55	20																	
Reverse Mount	34125	1.1	10																	
Lens	1608	1.24	20																	
	3216	1.85	20																	

Yellow Green (M), Green (P, F) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	I _F (mA)	0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10.0	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1800	1800 to 2500	
Mini-mold	1006	0.2	1		SML-P11MT (R)						SML-P12M2T (R)			SML-P12MT (R)									
			20							SML-P13FT (R)													
	1608	0.36	20				SML-P13PT (R)		SML-E12P8W			SML-E12M8W											
			2		CSL1901MW																		
	1608	0.55	20														SML-D15MW						
																		SML-D14MW (A)*					
																			SML-D13MW (A)*				
																				SML-D13FW			
																					SML-D13M8W		
																						SML-D12P8W	
20125	0.8	20																					
Reflector	20125	0.8	20										SML-M13MT										
	3020	1.3	20																				
PLCC2	3528	1.9	50										SML-Z14P4T*		SML-Z14M4T*								
		20																					
Side View (mold)	16115	0.55	20																				
Reverse Mount	34125	1.1	20																				
Lens	1608	1.24	20																				
	3216	1.85	20																				

*Please note that the luminous intensity of some products may fall between ranks (half rank).

*1 Luminous intensity on specification sheet include tolerance of within $\pm 10\%$. Note: Please be sure to refer the specifications about the rank.

SMD LEDs

Green (E)/Blue Green (E2, E3) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	I _F (mA)	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400	1400 to 2200	2200 to 3600	3600 to 5600
Mini-mold	1006	0.2	5	5					SMLP14ECNW									
		0.36							SMLN3EC8T									
	1608	0.55							SMLD12EN1W									
		1.06							SMLD12E2N1W									
Reflector	20125	0.8	5	20					SMLD12E3N1W									
	3020	1.3	20						CSL1001ET (C)									
PLCC2	3528	1.9	20	20					SMLMN2ECT (C)									
		1.9	20						SML012ENT									
Side View (mold)	16115	0.55	5	5					SMLZ24E2N3T									
Lens	1608	1.24	5	5					SMLZ4EGT (A)*									
	3216	1.85	20	20					SMLA12ENT									
		1.85	20						CSL0901ET									
									CSL0902ET									
									CSL0902ET									
									SMLS14ENT									

Blue (B) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	I _F (mA)	0.9 to 1.4	1.4 to 2.2	2.2 to 3.6	3.6 to 5.6	5.6 to 9.0	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400
Mini-mold	1006	0.2	5	5						SMLP14BCNW										
		0.36								SMLN3BC8T										
	1608	0.55								SMLD12BN1W										
		1.06								CSL1001BT (C)										
Reflector	20125	0.8	5	5						SMLMN2BCT (C)										
	3020	1.3	20	20						SML013BNT										
PLCC2	3528	1.9	20	20						SMLZ24BN3T (C)										
		1.9	20							SMLZ4BGT (A)*										
Side View (mold)	16115	0.55	5	5						SMLA12BN8T										
Reverse Mount	34125	1.1	20	20						SML813BNT										
Lens	1608	1.24	5	5						CSL0901BT										
	3216	1.85	20	20						CSL0902BT										
		1.85	20							SMLS14BNT										

White (WB) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	I _F (mA)	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1100	1100 to 1400	1400 to 1800	1800 to 2200	2200 to 2800	2800 to 3600	3600 to 7000	7000 to 8500
Mini-mold	1006	0.2	5	5						SMLP14WBCNIW												
		0.36								SMLN3WBC8W												
	1608	0.55								SMLD12WBN1W												
		1.06								CSL1101WBxW												
Reflector	1608	0.55	20	20						CSL1102WBxW												
		0.55								CSL1103WBxW												
PLCC2	20125	0.8	5	5						SMLMN2WB1CW (C)												
	3528	1.9	20	20						SML1104WBxW												
Side View (Reflector)	16115	0.55	5	5						SMLZ4WBGUW (A)*												
Reverse Mount	2812	0.8	20	20						CSL0416WBCW												
	34125	1.1	2	2						SML811WBCN1W												

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (cd)	I _F (mA)	2.2 to 2.8	2.8 to 3.3	3.3 to 4.0	4.0 to 4.8	4.8 to 5.8	5.8 to 7.0	7.0 to 8.5	8.5 to 10.2	10.2 to 12.3	12.3 to 14.8	14.8 to 19.0	19.0 to 21.8	21.8 to 24.5	24.5 to 27.2	27.2 to 29.3	29.3 to 32.6	32.6 to 35.4
Reflector	4520	0.6	90	90						SMLK18WBNCW											
										SMLK28WBNCW											

*Please note that the luminous intensity of some products may fall between ranks (half rank).

*1 Luminous intensity on specification sheet include tolerance of within ±10%. Note: Please be sure to refer the specifications about the rank.

2 Colors Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	I _F (mA)	Luminous Intensity (mcd) Emitting Color	2.5 to 4.0	4.0 to 6.3	6.3 to 10.0	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160
Mini-mold	1010	0.2	20	Red									
				Yellow Green									
				Blue									
	1315	0.6	5	Red									
				Yellow Green									
				Red									
		20	20	Yellow Green									
				Red									
				Yellow Green									
				Red									
				Yellow Green									
				Orange									
Reflector	3025	1.3	20	Yellow Green									
				Orange									
				Yellow Green									
				Red									
				Yellow									
				Yellow Green									
				Yellow Green									
				Red									
				Yellow									
				Yellow Green									
				Yellow Green									
				Red									
Reverse Mount	34125	1.1	20	Yellow Green									
				Red									
				Yellow Green									
				Red									

3 Colors Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	I _F (mA)	Luminous Intensity (mcd) Emitting Color	5.6 to 9.0	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400	1400 to 1800
Mini-mold	1010	0.2	5	Red													
				Green													
				Blue													
	1510	0.2	5	Red													
				Green													
				Blue													
Reflector	1816	0.5	20	Red													
				Green													
				Blue													
				Red													
				Green													
				Blue													
	3528	0.6		Red													
				Green													
				Blue													
				Red													
				Green													
				Blue													
Side View (Reflector)	29135	1.0	20	Red													
				Green													
				Blue													
				Red													
				Green													
	6922	2.15		Blue													
				Red													
				Green													
				Blue													
				Red													

*1 Luminous intensity on specification sheet include tolerance of within ±10%. Note: Please be sure to refer the specifications about the rank.

SMD LEDs (Automotive Grade)

Red (V, U) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2500	2500 to 3120
Mini-mold	1608	0.55	20							SML-D15VW (C)							
									SML-D13VW (C)								
										SML-D12V8W (C)							
	20125	0.8	20								SML-D15UW (C)						
											SML-D15U2W (C)						
											SML-D13UW (C)						
PLCC	3528	1.9	20								SML-D12U8W (C)						
											SML-H12V8T (C)						
Reverse Mount	34125	1.1	10								SML-H12U8T (C)						
											SML-Z14VT (C)						
Lens	1608	1.24	20								SML-Z14UT (C)						
											SML-811VT (C)						
											SML-811UT (C)						
												CSL0901VT (C)					
												CSL0901UT (C)					
												CSL0902VT (C)					
Lens	1608	1.24	20									CSL0902UT (C)					
													CSL0903VT (C)				
														CSL0903UT (C)			

Orange (D) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800
Mini-mold	1608	0.55	20								SML-D15DW (C)				
										SML-D13DW (C)					
	20125	0.8	20								SML-D12D8W (C)				
PLCC	3528	1.9	20								SML-H12D8T (C)				
Reverse Mount	34125	1.1	10								SML-Z14DT (C)				
Lens	1608	1.24	20								SML-811DT (C)				
												CSL0901DT (C)			
												CSL0902DT (C)			
Lens	1608	1.24	20											CSL0903DT (C)	

Yellow (Y, W) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) I_e (mA)	2.5 to 4.0	4.0 to 6.3	6.3 to 10.0	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800
Mini-mold	1608	0.55	2		SML-D12W8W (C)									SML-D15YW (C)				
			20							SML-D13WW (C)								
	20125	0.8	20						SML-D12Y8W (C)									
									SML-H12Y8T (C)									
PLCC	3528	1.9	20									SML-Z14YT (C)						
Reverse Mount	34125	1.1	10					SML-811WT (C)										
Lens	1608	1.24	20										CSL0901YT (C)					
													CSL0901WT (C)					
													CSL0902YT (C)					
													CSL0903YT (C)					

Yellow Green (M), Green (P, F) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd)	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10.0	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000
Mini-mold	1608	0.55	20										SML-D15MW (C)				
												SML-D13MW (C)					
												SML-D12P8W (C)					
	20125	0.8	20									SML-D13FW (C)					
												SML-D12M8W (C)					
												SML-H12M8T (C)					
PLCC	3528	1.9	20									SML-H12P8T (C)					
												SML-Z14MT (C)					
Lens	1608	1.24	20									SML-Z14FT (C)					
												SML-Z14PT (C)					
													CSL0901MT (C)				
												CSL0901PT (C)					
Lens	1608	1.24	20										CSL0902MT (C)				

Green (E)/Blue Green (E2) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	I _F (mA)	Luminous Intensity (mcd)	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400	1400 to 2200	2200 to 3600	3600 to 5600
Mini-mold	1608	1.06	5					CSL1001ET (C)							
Reflector	20125	0.8	5					SMLMN2ECT (C)							
PLCC	3528	1.9	20									SMLZ24E2N3T (C)			
Lens	1608	1.24	5						CSL0901ET (C)						
			20									CSL0902ET (C)			

Blue (B) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	I _F (mA)	Luminous Intensity (mcd)	2.2 to 3.6	3.6 to 5.6	5.6 to 9.0	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900
Mini-mold	1608	0.55	5							SMLD12BN1W (C)							
		1.06	1			CSL1001BT (C)											
Reflector	20125	0.8	5							SMLMN2BCT (C)							
PLCC	3528	1.9	20											SMLZ24BN3T (C)			
Lens	1608	1.24	5								CSL0901BT (C)						
			20											CSL0902BT (C)			

White (WB) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	I _F (mA)	Luminous Intensity (mcd)	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1100	1000 to 1400	1400 to 1800
Mini-mold	1608	0.55	5						SMLD12WBN1W (C)					
Reflector	1608	0.55	5					CSL1101WBAW (C)						
								CSL1101WBBW (C)						
								CSL1101WBCW (C)						
								CSL1101WBDW (C)						
		20									CSL1102WBAW (C)			
											CSL1102WBBW (C)			
											CSL1102WBCW (C)			
											CSL1102WBDW (C)			
	20125	0.8	5					SMLMN2WB1CW (C)						

3 Colors (RGB) Quick Reference of Luminous intensity

Package Structure	Package Size (mm)	Height (mm)	I _F (mA)	Luminous Intensity (mcd)	220 to 280	280 to 360	360 to 450	450 to 560	560 to 710	710 to 900	900 to 1100	1100 to 1400	1400 to 1800	1800 to 2200
Reflector	3528	0.6	20	Red										
				Green						SMLVN6RGBFU1 (C)				
				Blue										

SMD LEDs

PICOLED™ Mold type 0402 (1006M)																				
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)												Absolute Maximum Ratings (T _a =25°C)					
			Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	
			Typ* (nm)		I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)							
	Red	SML-P11VT (R)	626	1	2	4	6	1	1.8	1	10	5	50	20	100 ^{*2}	5	-40 to +85	-40 to +100		
		SML-P11UT (R)	621	1	1	3	6	1	1.8	1	10	5	50	20	100 ^{*2}	5	-40 to +85	-40 to +100		
	Orange	SML-P11DT (R)	605	1	4	7	16	1	1.9	1	10	5	52	20	100 ^{*2}	5	-40 to +85	-40 to +100		
	Yellow	SML-P11YT (R)	586	1	4	8	16	1	1.9	1	10	5	52	20	100 ^{*2}	5	-40 to +85	-40 to +100		
	Yellow Green	SML-P11MT (R)	569	1	1	2	4	1	1.9	1	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100		
 (E/B)  (WB)	Red	SML-P12VT (R)	630	20	25	60	100	20	2.0	20	10	5	50	20	100 ^{*2}	5	-40 to +85	-40 to +100		
		SML-P12UT (R)	620	20	40	85	160	20	2.0	20	10	5	50	20	100 ^{*2}	5	-40 to +85	-40 to +100		
		SML-P12U2T (R)	615	20	25	70	160	20	2.1	20	10	5	52	20	100 ^{*2}	5	-40 to +85	-40 to +100		
	Orange	SML-P12DT (R)	605	20	63	100	250	20	2.1	20	10	5	52	20	100 ^{*2}	5	-40 to +85	-40 to +100		
		SML-P12Y3T (R)	596	20	40	90	250	20	2.1	20	10	5	52	20	100 ^{*2}	5	-40 to +85	-40 to +100		
		SML-P12YT (R)	590	20	40	100	160	20	2.1	20	10	5	52	20	100 ^{*2}	5	-40 to +85	-40 to +100		
	Yellow	SML-P12WT (R)	585	20	25	70	160	20	2.1	20	10	5	52	20	100 ^{*2}	5	-40 to +85	-40 to +100		
		SML-P12Y2T (R)	580	20	16	50	100	20	2.1	20	10	5	52	20	100 ^{*2}	5	-40 to +85	-40 to +100		
		SML-P12M2T (R)	576	20	10	25	63	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100		
	Yellow Green	SML-P12MT (R)	572	20	10	25	63	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100		
		SML-P13FT (R)	566	20	6	18	40	20	2.1	20	10	5	52	20	100 ^{*2}	5	-40 to +85	-40 to +100		
		SML-P13PT (R)	560	20	4	10	16	20	2.1	20	10	5	52	20	100 ^{*2}	5	-40 to +85	-40 to +100		
	Green	SMLP14ECNW	527	5	56	110	220	5	3.0	5	100	5	34	10	50 ^{*2}	5	-40 to +85	-40 to +100		
		SMLP14BCNW	470	5	9	25	56	5	2.9	5	100	5	33	10	50 ^{*2}	5	-40 to +85	-40 to +100		
		White	SMLP14WBCN1W	(x, y) (0.30, 0.30)	5	90	180	360	5	2.9	5	100	5	33	10	50 ^{*2}	5	-40 to +85	-40 to +100	
Mold type 0603 (1608M)																				
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)												Absolute Maximum Ratings (T _a =25°C)					
			Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	
			Typ* (nm)		I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)							
 (WB)	Red	SML-E12V8W	630	20	16	40	100	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100		
		SML-E12UW	624	20	36	85	280	20	2.0	20	10	5	62	25	60 ^{*1}	5	-30 to +85	-40 to +85		
		SML-E12U8W	620	20	25	63	160	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100		
	Orange	SML-E12DW	607	20	56	150	450	20	2.0	20	10	5	62	25	60 ^{*1}	5	-30 to +85	-40 to +85		
		SML-E12D8W	605	20	40	100	250	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100		
	Yellow	SML-E12Y8W	590	20	25	63	160	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100		
	Yellow Green	SML-E12M8W	572	20	10	25	63	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100		
		SML-E12P8W	560	20	3	6	16	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100		
	Green	SMLN3EC8T	527	5	56	120	360	5	3.0	5	10	5	68	20	100 ^{*2}	5	-40 to +85	-40 to +100		
	Blue	SMLN3BC8T	470	5	14	40	90	5	2.9	5	10	5	66	20	100 ^{*2}	5	-40 to +85	-40 to +100		
 (WB)	White	SMLN3WBC8W	(x, y) (0.30, 0.30)	5	56	120	220	5	2.9	5	10	5	33	10	50 ^{*2}	5	-40 to +85	-40 to +100		
	Red	SML-D12L8W	635	20	10	16	40	20	2.0	20	10	5	50	20	100 ^{*3}	5	-40 to +85	-40 to +100		
		SML-D14VW (A)					71	100	180					72	30					
		Single rank SML-D15VW					90	112		2.0				84	35					
		SML-D13VW (A)					36	55	90	20				72	30					
		SML-D12V8W					16		100		2.2			54						
		SML-D12V1W					25		63					20						
		New CSL1901VW			2	1.6	4.8	6.3	2	1.8	2			44						
		Single rank SML-D15UW					90	112		2.0				84	35					
		SML-D13UW (A)					56	85	140		2.1			72	30					
SML-D13U8W						40	70	160	20	2.1	20	10	5	52						
 (WB)	Orange	SML-D12U8W					25		63		2.2			54	20					
		SML-D12U1W					40		100					20						
		New CSL1901UW			2	2.5	6	10	2	1.8	2			44						
		SML-D14U2W (A)					90	160	224		2.0			72	30					
		SML-D15U2W					112	140	180		2.0			84	35					
		Single rank SML-D15DW					180	224						84	35					
		SML-D14DW (A)					112	200		2.0				72	30					
		SML-D13DW (A)					71	120	180	20				54						
		SML-D12D8W					40		250		2.2			20						
		SML-D12D1W					63		160					44						
 (WB)	Yellow	New CSL1901DW			2	6.3	9.4	25	2	1.8	2			44						
		Single rank SML-D15YW					180	224		2.1				87	35					
		SML-D14YW (A)					112	200						75	30					
		SML-D12Y1W			20		63	100		2.2				54	20					
		SML-D13Y8W					25		63					20						
		SML-D12Y8W					25		63					20						
		New CSL1901YW			2	6.3	9.4	25	2	1.8	2			44						
		SML-D12W8W (A)			2	5	7	9	2	2.0			12	52	20					
		SML-D11YW					2	4	6	2	1.9	2	10	5	67	25				
		SML-D14WW (A)			20		112	180	280		2.1			75	30					
 (WB)	Yellow Green	SML-D13WW (A)					71	110	180	20	2.1	20	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100
		SML-D13Y2W			20		40	80	160		2.1			78	30					
		SML-D12Y3W					16	40	100		2.2			54	20					
		SML-D12M1W					16	30						54	20					
		SML-D13M8W			20		10	25		2.2				54	20					
		SML-D12M8W					56	71						87	35					
		Single rank SML-D15MW					36	60		2.1				75	30					
		SML-D14MW (A)			20		28	45	71		2.1			75	30					
		SML-D13MW (A)					28	45	71		2.1			75	30					
		New CSL1901MW			2	1	3	4	2	1.8	2	10	5	44	20					
Green	SML-D13FW					18	22	36		2.1			81	30						
	SML-D12FW			20		14	18	28		2.2			67	25						
	SML-D12P8W			20	3	6	16	20	2.2	20	10	5	54	20						
	SMLD12EN1W			5	56	140	220	5	3.0	5	10	5	70	20						
	SMLD12E2N1W			5	56	120	140	5	2.9	5	10	5	66	20						
	SMLD12E3N1W			496	5	56	85	140	5	2.9	5	10	5	66	20					
Blue Green	SMLD12BN1W			470	5	14	40	56	5	2.9	5	10	5	66	20					
	White	SMLD12WBCN1W	(x, y) (0.295, 0.280)	5	56	120	220	5	2.9	5	10	5	66	20						
1.6x0.8 (t=0.55)																				

Mold type 0603 (1608M)																			
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						
			Dominant Wavelength λ _D		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
			Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)							
 1.6x0.8 (t=1.06)	Green	CSL1001ET (C)	527	5	90	140	224	5	3.0	5	10	5	35	10	50 ^{*2}	5	-40 to +100	-40 to +100	
	Blue	CSL1001BT (C)	470	1	4	6	9	1	2.8	1	10	5	33	10	50 ^{*2}	5	-40 to +100	-40 to +100	
Mold type 0805 (20125M)																			
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						
			Dominant Wavelength λ _D		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
			Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)							
 2.0x1.25 (t=0.8)	Red	SML-H12V8T	630	20	16	25	63	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
		SML-H12U8T	620	20	25	40	100	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
	Orange	SML-H12D8T	605	20	40	63	160	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
	Yellow	SML-H12Y8T	590	20	40	63	160	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
	Yellow Green	SML-H12M8T	572	20	10	25	40	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
	Green	SML-H12P8T	560	20	3	4	10	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
Reflector type 0603 (1608M)																			
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						
			Dominant Wavelength λ _D / Chromaticity Coordinates (x, y)		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
			Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)							
 1.6x0.8 (t=0.55)	White	New CSL1101WBAW	(x, y) (0.282, 0.249)	5	90	155	220	5	2.9	5	10	5	68	20	100 ^{*2}	5	-40 to +110	-40 to +110	
		New CSL1101WBBW	(x, y) (0.261, 0.261)	5	90	155	220	5	2.9	5	10	5	68	20	100 ^{*2}	5	-40 to +110	-40 to +110	
		New CSL1101WBCW	(x, y) (0.303, 0.294)	5	90	155	220	5	2.9	5	10	5	68	20	100 ^{*2}	5	-40 to +110	-40 to +110	
		New CSL1101WBDW	(x, y) (0.284, 0.303)	5	90	155	220	5	2.9	5	10	5	68	20	100 ^{*2}	5	-40 to +110	-40 to +110	
		New CSL1102WBAW	(x, y) (0.282, 0.249)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100 ^{*2}	5	-40 to +110	-40 to +110	
		New CSL1102WBBW	(x, y) (0.261, 0.261)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100 ^{*2}	5	-40 to +110	-40 to +110	
		New CSL1102WBCW	(x, y) (0.303, 0.294)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100 ^{*2}	5	-40 to +110	-40 to +110	
		New CSL1102WBDW	(x, y) (0.284, 0.303)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100 ^{*2}	5	-40 to +110	-40 to +110	
		CSL1103WBAW	(x, y) (0.282, 0.249)	20	900	1,500	2,200	20	3.2	20	10	5	152	40	100 ^{*2}	5	-40 to +110	-40 to +110	
		CSL1103WBBW	(x, y) (0.261, 0.261)	20	900	1,500	2,200	20	3.2	20	10	5	152	40	100 ^{*2}	5	-40 to +110	-40 to +110	
		CSL1103WBCW	(x, y) (0.303, 0.294)	20	900	1,500	2,200	20	3.2	20	10	5	152	40	100 ^{*2}	5	-40 to +110	-40 to +110	
		CSL1103WBDW	(x, y) (0.284, 0.303)	20	900	1,500	2,200	20	3.2	20	10	5	152	40	100 ^{*2}	5	-40 to +110	-40 to +110	
		CSL1104WBAW	(x, y) (0.282, 0.249)	20	1,400	2,000	2,800	20	2.9	20	10	5	144	40	100 ^{*2}	5	-40 to +110	-40 to +110	
		CSL1104WBBW	(x, y) (0.261, 0.261)	20	1,400	2,000	2,800	20	2.9	20	10	5	144	40	100 ^{*2}	5	-40 to +110	-40 to +110	
		CSL1104WBCW	(x, y) (0.303, 0.294)	20	1,400	2,000	2,800	20	2.9	20	10	5	144	40	100 ^{*2}	5	-40 to +110	-40 to +110	
		CSL1104WBDW	(x, y) (0.284, 0.303)	20	1,400	2,000	2,800	20	2.9	20	10	5	144	40	100 ^{*2}	5	-40 to +110	-40 to +110	
Reflector type 0805 (20125M)																			
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						
			Dominant Wavelength λ _D / Chromaticity Coordinates (x, y)		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
			Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)							
 2.0x1.25 (t=0.8)	Red	SML-M13VT	630	20	40	75	100	20	2.0	20	10	5	75	30	100 ^{*2}	5	-40 to +85	-40 to +100	
		SML-M13UT	620	20	63	120	160	20	2.0	20	10	5	75	30	100 ^{*2}	5	-40 to +85	-40 to +100	
	Orange	SML-M13DT	605	20	100	160	250	20	2.0	20	10	5	75	30	100 ^{*2}	5	-40 to +85	-40 to +100	
	Yellow	SML-M13YT	590	20	100	160	250	20	2.0	20	10	5	75	30	100 ^{*2}	5	-40 to +85	-40 to +100	
	Yellow Green	SML-M13MT	572	20	25	45	100	20	2.2	20	10	5	81	30	100 ^{*2}	5	-40 to +85	-40 to +100	
	Green	SML-M13PT	560	20	6	16	25	20	2.2	20	10	5	81	30	100 ^{*2}	5	-40 to +85	-40 to +100	
	(WB)	SMLMN2ECT (C)	527	5	56	140	360	5	3.0	5	10	12	70	20	100 ^{*2}	12	-40 to +100	-40 to +100	
	Blue	SMLMN2BCT (C)	470	5	14	36	90	5	2.9	5	10	12	68	20	100 ^{*2}	12	-40 to +100	-40 to +100	
	White	SMLMN2WB1CW (C)	(x, y) (0.30, 0.28)	5	56	140	220	5	2.9	5	10	12	68	20	100 ^{*2}	12	-40 to +100	-40 to +100	
Reflector type (3020M)																			
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						
			Dominant Wavelength λ _D		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
			Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)							
 3.0x2.0 (t=1.3)	Red	SML-010VT	650 ^{*3}	20	2	6	18	20	2.0	20	10	4	70	25	60 ^{*1}	4	-30 to +85	-40 to +85	
		SML-011VT (A)	639 ^{*3}	10	14	28	56	10	2.0	10	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	
		SML-011UT	630 ^{*3}	20	22	63	180	20	2.0	20	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	
		SML-012VT (A)	630	20	36	71	140	20	2.0	20	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	
		SML-012V8T		20	25	63	160	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
		SML-013UT	624	20	90	220	710	20	2.0	20	10	5	75	30	100 ^{*2}	5	-30 to +85	-40 to +100	
		SML-012UT		20	36	100	280	20	2.0	20	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	
		SML-012U8T	620	20	40	100	250	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
	Orange	SML-011DT	611 ^{*3}	20	22	63	180	20	2.0	20	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	
		SML-011DT (A)		10	22	45	90	10	2.0	10	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	
		SML-010DT	610 ^{*3}	20	4	10	28	20	2.0	20	100	4	70	25	60 ^{*1}	4	-30 to +85	-40 to +85	
		SML-012DT	606	20	36	100	280	20	2.0	20	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	
		SML-012D8T	605	20	63	160	400	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
		SML-012DT (A)		20	71	140	280	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
		SML-011YT	590 ^{*3}	20	22	63	180	20	2.0	20	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	
		SML-011YT (A)		10	11	22	45	10	2.0	10	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	
	Yellow	SML-012WT (A)		20	140	280	450	20	2.1	20	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	
		SML-013YT		20	100	250	630	20	2.1	20	10	5	75	30	100 ^{*2}	5	-40 to +85	-40 to +100	
		SML-012YT		20	36	100	280	20	2.0	20	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	
		SML-012Y8T		20	40	100	250	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
		SML-012YT (A)	587	20	56	112	224	20	2.0	20	10	5	75	30	100 ^{*2}	5	-40 to +100	-40 to +100	
		SML-010YT	585 ^{*3}	20	2	6	18	20	2.1	20	100	4	70	25	60 ^{*1}	4	-30 to +85	-40 to +85	
		SML-012M8T	572	20	16	40	100	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
		SML-010MT	570 ^{*3}	20	6	25	45	20	2.2	20	100	4	70	25	60 ^{*1}	4	-30 to +85	-40 to +85	
	Yellow Green	SML-012PT (A)	560	20	9	36	90	20	2.1	20	10	5	62	25	60 ^{*2}	5	-40 to +100	-40 to +100	
		SML-012P8T		20	3	18	25	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	
		SML012ENT	525	20	140	360	900	20	3.2	20	100	5	84	20	100 ^{*2}	5	-30 to +85	-40 to +100	
		SML013BNT	470	20	90	250	560	20	3.2	20	100	5	78	20	100 ^{*2}	5	-30 to +85	-40 to +100	

SMD LEDs

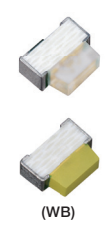
Reflector type PLCC (3528M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)											Absolute Maximum Ratings (T _a =25°C)				
			Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)		Luminous Intensity I _v				Forward Voltage V _f		Reverse Current I _r		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
			Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)						
 PLCC 3.5x2.8 (t=1.9)	Red	SML-Z14V4T	630	50	140	280	560	50	2.0	50	10	12	189	70	200*2	12	-40 to 100	-40 to 100
		SML-Z14VT (A)		20	56	112	180	20	1.9	20	10	12	168	70	200*2	12	-40 to 100	-40 to 100
		SML-Z14U4T	620	50	280	560	1,120	50	2.0	50	10	12	189	70	200*2	12	-40 to 100	-40 to 100
		SML-Z14UT (A)		20	112	224	355	20	1.9	20	10	12	168	70	200*2	12	-40 to 100	-40 to 100
	Orange	SML-Z14D4T	605	50	355	710	1,400	50	2.0	50	10	12	189	70	200*2	12	-40 to 100	-40 to 100
		SML-Z14DT (A)		20	140	280	450	20	1.9	20	10	12	168	70	200*2	12	-40 to 100	-40 to 100
	Yellow	SML-Z14Y4T	590	50	355	710	1,400	50	2.1	50	10	12	189	70	200*2	12	-40 to 100	-40 to 100
		SML-Z14YT (A)		20	140	280	450	20	2.0	20	10	12	175	70	200*2	12	-40 to 100	-40 to 100
	Yellow Green	SML-Z14M4T	572	50	112	224	450	50	2.1	50	10	12	189	70	200*2	12	-40 to 100	-40 to 100
		SML-Z14MT (A)		20	45	90	140	20	2.0	20	10	12	175	70	200*2	12	-40 to 100	-40 to 100
	Green	SML-Z14F4T	565	50	56	120	180	50	2.1	50	10	12	189	70	200*2	12	-40 to 100	-40 to 100
		SML-Z14FT (A)	564	20	22	45	71	20	2.0	20	10	12	175	70	200*2	12	-40 to 100	-40 to 100
		SML-Z14P4T	561	50	22	56	90	50	2.1	50	10	12	189	70	200*2	12	-40 to 100	-40 to 100
		SML-Z14PT (A)	560	20	11	22	36	20	2.0	20	10	12	175	70	200*2	12	-40 to 100	-40 to 100
		SMLZN4EGT (A)	528	20	900	1,500	2,200	20	3.4	20	10	5	120	30	100*2	5	-40 to 100	-40 to 100
	Blue Green	SMLZ24E2N3T (C)	505	20	900	1,140	1,800	20	3.2	20	—	—	152	40	100*2	—	-40 to 100	-40 to 100
	Blue	SMLZ24BN3T (C)	470	20	220	300	450	20	3.3	20	—	—	114	30	100*2	0.9	-40 to 100	-40 to 100
		SMLZN4BGT (A)		140	—	—	—	—	—	—	—	—	—	—	—	—	-40 to 85	-40 to 100
	White	SMLZN4WBGUW (A)	(x, y) (0.30, 0.28)	20	1,800	2,400	3,600	20	3.3	20	—	—	114	30	100*2	0.9	-40 to 100	-40 to 100

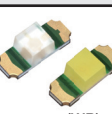
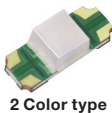
Reflector type (4520M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)											Absolute Maximum Ratings (T _a =25°C)				
			Chromaticity Coordinates* (x, y)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)	Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
 4.5x2.0 (t=0.6)	White	SMLK18WBCW	(0.30, 0.28)	90	4,800	5,900	8,500	90	3.9	90	10	5	675	150	230*3	5	-40 to +100	-40 to +100
		New SMLK28WBCW		150	—	—	—	150	—	—	—	—	—	—	—	—	-40 to +100	-40 to +100

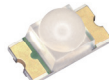
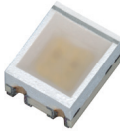
Side View type

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)											Absolute Maximum Ratings (T _a =25°C)				
			Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)		Luminous Intensity I _v				Forward Voltage V _f		Reverse Current I _r		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
			Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)						
 (WB)	Red	SML-A12V8T	630	20	16	40	100	20	2.2	20	10	5	54	20	100*2	5	-40 to +85	-40 to +100
		SML-A12UT (J)	624	20	36	100	280	20	2.0	20	10	5	75	30	100*2	5	-40 to +85	-40 to +100
		SML-A12U8T	620	20	25	63	160	20	2.2	20	10	5	54	20	100*2	5	-40 to +85	-40 to +100
	Orange	SML-A12DT (J)	606	20	36	100	280	20	2.0	20	10	5	75	30	100*2	5	-40 to +85	-40 to +100
		SML-A12D8T	605	20	40	100	250	20	2.2	20	10	5	54	20	100*2	5	-40 to +85	-40 to +100
	Yellow	SML-A12WT (J)	590	36	180	—	—	2.0	—	—	—	—	75	30	100*2	5	-40 to +85	-40 to +100
		SML-A12Y8T		25	160	20	2.2	20	10	5	54	20	100*2	5				
		SML-A15YT		180	—	280	2.1	—	—	—	—	—	87	35				
	Yellow Green	SML-A12M8T	572	20	10	25	63	20	2.2	20	10	5	54	20	100*2	5	-40 to +85	-40 to +100
		SML-A12MT (J)	570	20	14	40	110	20	2.1	20	100	5	65	25	100*2	5	-30 to +85	-40 to +85
	Green	SML-A12P8T	560	20	3	6	16	20	2.2	20	10	5	54	20	100*2	5	-40 to +85	-40 to +100
		SMLA12ENT	527	5	56	140	220	5	3.0	5	100	5	68	20	100*2	5	-40 to +85	-40 to +100
	Blue	SMLA12BN8T	470	5	9	36	56	5	2.9	5	10	5	66	20	100*2	5	-40 to +85	-40 to +100
	White	SMLA12WBN7W	(x, y) (0.30, 0.30)	5	22	56	140	5	2.9	5	10	5	33	10	50*2	5	-40 to +85	-40 to +100
 2.8x1.2 (t=0.8)	White	CSL0416WBCW	(x, y) (0.30, 0.28)	20	1,400	2,200	3,600	20	3.2	20	50	5	117	30	100*2	5	-40 to +85	-40 to +100

Reverse Mount type

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)											Absolute Maximum Ratings (T _a =25°C)				
			Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)		Luminous Intensity I _v				Forward Voltage V _f		Reverse Current I _r		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
			Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)						
 (WB) Mold type 3.4x1.25 (t=1.1)	Red	SML-811VT (A)	630	10	11	22	45	10	2.0	10	100	5	62	25	100*2	5	-40 to +85	-40 to +100
		SML-811UT (A)	620	10	11	22	45	10	2.0	10	100	5	62	25	100*2	5	-40 to +85	-40 to +100
	Orange	SML-811DT (A)	605	10	11	22	45	10	2.0	10	100	5	62	25	100*2	5	-40 to +85	-40 to +100
	Yellow	SML-811WT (A)	590	10	14	28	56	10	2.0	10	100	5	62	25	100*2	5	-40 to +85	-40 to +100
	Yellow Green	SML-812MT	571	20	14	40	110	20	2.1	20	100	4	65	25	60*1	4	-30 to +85	-40 to +85
	Blue	SML813BNT	470	20	90	185	360	20	3.2	20	100	5	76	20	100*2	5	-40 to +85	-40 to +85
	White	SML811WBCN1W	(x, y) (0.272, 0.279)	2	9	22	45	2	2.8	2	10	5	35	10	50*2	5	-40 to +85	-40 to +100
 2 Color type 3.4x1.25 (t=1.1)	Yellow Green	SML-822MV8W	572	20	16	25	40	20	2.2	20	100	5	54	20	100*2	5	-40 to +85	-40 to +100
	Red		630	20	16	30	63	20	2.2	20	100	5	54	20	100*2	5	-40 to +85	-40 to +100
	Yellow Green	SML-825MVW	572	20	40	63	100	20	2.1	20	100	5	80	30	100*2	5	-40 to +85	-40 to +100
	Red		630	20	40	63	100	20	2.0	20	100	5	80	30	100*2	5	-40 to +85	-40 to +100

*1 Duty:1/5, 200Hz *2 Duty:1/10, 1kHz *3 Duty:1/10, pulse width 10ms Max
*Luminous intensity for white color is noted with chromaticity coordinate (x, y).

Surface Mount Circular type																			
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						
			Dominant Wavelength λ _D		Luminous Intensity I _v				Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FM} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	
			Typ (nm)	I _r (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _r (mA)	Typ (V)	I _r (mA)	Max (μA)	V _R (V)							
 1.6×0.8 (t=1.24)	Red	CSL0903VT	630	20	560	800	1,400	20	2.1	20	10	12	87	35	100*2	12	-40 to +100	-40 to +100	
		CSL0902VT			180	280	450						62.5	25					
		CSL0901VT			112	180	355						62.5	25					
		CSL0903UT	620	20	710	1,200	1,800	20	2.1	20	10	12	87	35	100*2	12	-40 to +100	-40 to +100	
		CSL0902UT			224	355	560						62.5	25					
		CSL0901UT			140	280	450						62.5	25					
	Orange	CSL0903DT	605	20	900	1,400	2,240	20	2.1	20	10	12	87	35	100*2	12	-40 to +100	-40 to +100	
		CSL0902DT			355	560	900						62.5	25					
		CSL0901DT			224	400	710						62.5	25					
	Yellow	CSL0903YT	590	20	560	800	1,400	20	2.1	20	10	12	87	35	100*2	12	-40 to +100	-40 to +100	
		CSL0902YT			355	560	900						62.5	25					
		CSL0901YT			180	320	560						62.5	25					
	Yellow Green	CSL0901WT	587	20	180	280	560	20	2.1	20	10	12	62.5	25	100*2	12	-40 to +100	-40 to +100	
		CSL0902MT	571	20	112	180	280	20	2.1	20	10	12	87	35	100*2	12	-40 to +100	-40 to +100	
		CSL0901MT			56	100	180						62.5	25					
	Green	CSL0901PT	560	20	14	30	45	20	2.1	20	10	12	62.5	25	100*2	12	-40 to +100	-40 to +100	
		CSL0902ET	527	20	710	1,100	1,800	20	3.4	20	10	5	95	25	100*2	5	-40 to +100	-40 to +100	
		CSL0901ET			5	220	360						560	5					3.0
Blue	CSL0902BT	470	20	220	360	560	20	3.3	20	10	5	95	25	100*2	5	-40 to +100	-40 to +100		
	CSL0901BT			5	36	56	90	5	2.9			5	68					20	
 Reverse Mount Available 3.2×1.6 (t=1.85)	Red	SML-S13VT	630	20	160	450	630	20	1.9	20	10	5	75	30	100*2	5	-40 to +85	-40 to +100	
		SML-S13UT	620	20	400	700	1,600	20	1.9	20	10	5	75	30	100*2	5	-40 to +85	-40 to +100	
	Orange	SML-S13DT	605	20	630	1,400	2,500	20	1.9	20	10	5	75	30	100*2	5	-40 to +85	-40 to +100	
	Yellow	SML-S13YT	590	20	630	1,400	2,500	20	2.0	20	10	5	78	30	100*2	5	-40 to +85	-40 to +100	
	Yellow Green	SML-S13MT	572	20	160	400	630	20	2.0	20	10	5	78	30	100*2	5	-40 to +85	-40 to +100	
		SML-S13PT	560	20	63	160	400	20	2.0	20	10	5	78	30	100*2	5	-40 to +85	-40 to +100	
	Green	SMLS14ENT	527	20	1,800	3,000	4,500	20	3.3	20	10	5	117	30	100*2	5	-40 to +85	-40 to +100	
Blue	SMLS14BNT	470	20	450	800	1,400	20	3.2	20	10	5	117	30	100*2	5	-40 to +85	-40 to +100		
 2.9×2.4 (t=3.1)	Red	CSL0701UT	624	20	9,000	18,000	25,000	20	2.1	20	10	5	120	50	150*2	5	-40 to +85	-40 to +100	
	Orange	CSL0701DT	605	20	20,000	35,000	50,000	20	2.1	20	10	5	120	50	150*2	5	-40 to +85	-40 to +100	
2 Colors type																			
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						
			Dominant Wavelength λ _D		Luminous Intensity I _v				Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FM} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	
			Typ (nm)	I _r (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _r (mA)	Typ (V)	I _r (mA)	Max (μA)	V _R (V)							
 PICOLED™-Duo 1.0×1.0 (t=0.2)	Yellow Green	SML-P24MUW (R)	572	20	10	21	40	20	2.2	20	10	5	54	20	100*2	5	-40 to +85	-40 to +100	
	Red		620	20	25	52	100	20	2.1	20	10	5	52	20	100*2	5	-40 to +85	-40 to +100	
 1.6×0.8 (t=0.55)	Yellow Green	SML-D22MUW	570	5	6	10	16	5	2.0	5	10	5	67	25	100*2	5	-40 to +105	-40 to +110	
	Red		620	5	10	16	25	5	1.9	5	10	5	65	25	100*2	5	-40 to +105	-40 to +110	
	Yellow	SML-D22YVW	588	5	16	25	40	5	2.0	5	10	5	67	25	100*2	5	-40 to +105	-40 to +110	
	Red		629	5	10	16	25	5	1.9	5	10	5	65	25	100*2	5	-40 to +105	-40 to +110	
 1.3×1.5 (t=0.6)	Blue	SML522BUNW	470	5	9	22	36	5	2.9	5	10	5	66	20	60*2	5	-40 to +85	-40 to +100	
	Red		624	5	10	21	40	5	1.9	5	10	5	50	20	60*2	5	-40 to +85	-40 to +100	
	Yellow Green	SML-522MUW	570	20	14	40	71	20	2.1	20	100	4	52	20	60*2	4	-30 to +85	-40 to +85	
	Red		630	20	22	63	110	20	1.9	20	100	4	50	20	60*2	4	-30 to +85	-40 to +85	
	Yellow Green	SML-522MU8W	572	20	16	40	63	20	2.2	20	100	4	54	20	100*2	4	-40 to +85	-40 to +100	
	Red		620	20	25	63	100	20	2.2	20	100	4	54	20	100*2	4	-40 to +85	-40 to +100	
	Yellow Green	SML-522MD8W	572	20	10	25	40	20	2.2	20	100	4	54	20	100*2	4	-40 to +85	-40 to +100	
	Orange		605	20	40	100	160	20	2.2	20	100	4	54	20	100*2	4	-40 to +85	-40 to +100	
	Yellow Green	SML-522MY8W	572	20	16	40	63	20	2.2	20	100	4	54	20	100*2	4	-40 to +85	-40 to +100	
	Yellow		590	20	40	63	160	20	2.2	20	100	4	54	20	100*2	4	-40 to +85	-40 to +100	
	 3.0×2.5 (t=1.3)	Yellow Green	SML-020MDT	570*3	20	9	20	45	20	2.2	20	100	4	60	25	60*1	4	-30 to +85	-40 to +85
		Orange		610*3	20	6	10	18	20	2.0	20	100	4	60	25	60*1	4	-30 to +85	-40 to +85
Yellow Green		SML-020MVT	570*3	20	9	20	45	20	2.2	20	100	4	60	25	60*1	4	-30 to +85	-40 to +85	
Red			650*3	20	4	6	11	20	2.0	20	100	4	60	25	60*1	4	-30 to +85	-40 to +85	
Yellow Green		SML-020MYT	570*3	20	9	21	45	20	2.2	20	100	4	60	25	60*1	4	-30 to +85	-40 to +85	
Yellow			585*3	20	6	10	18	20	2.1	20	100	4	60	25	60*1	4	-30 to +85	-40 to +85	

*1 Duty:1/5, 200Hz *2 Duty:1/10, 1kHz *3 Peak wavelength
Note: PICOLED™ is a trademark or a registered trademark of ROHM Co., Ltd.

SMD LEDs

3 Colors type																				
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)												Absolute Maximum Ratings (T _a =25°C)					
			Dominant Wavelength λ _D		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R			Power Dissipation P _D	Forward Current I _F	Peak Forward Current I _{FP}	Reverse Voltage V _R	Operating Temperature T _{opr}	Storage Temperature T _{stg}
			Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)	P _D (mW)	I _F (mA)	I _{FP} (mA)	V _R (V)	T _{opr} (°C)	T _{stg} (°C)		
	Red	SMLP34RGBN1W	624	5	36	80	140	5	2.1	5	10	5	35	10	50 ^{*1}	5	-40 to +85	-40 to +100		
	Green		527	5	140	220	360	5	3.1	5	10	5	35	10	50 ^{*1}	5	-40 to +85	-40 to +100		
	Blue		470	5	36	60	140	5	3.0	5	10	5	35	10	50 ^{*1}	5	-40 to +85	-40 to +100		
	Red	SMLP36RGBNW	624	5	36	80	140	5	1.9	5	10	5	35	10	50 ^{*1}	5	-40 to +85	-40 to +100		
	Green		527	5	140	220	360	5	2.9	5	10	5	35	10	50 ^{*1}	5	-40 to +85	-40 to +100		
	Blue		470	5	36	60	140	5	2.95	5	10	5	35	10	50 ^{*1}	5	-40 to +85	-40 to +100		
	Red	MSL0402RGBU ^{*5}	624	20	220	400	560	20	2.1	20	10	5	180 ⁺³ ₋₃	30	100	5	-40 to +85	-40 to +100		
	Green		527	20	360	550	900	20	3.5	20	100	5	180 ⁺³ ₋₃	30	100	5	-40 to +85	-40 to +100		
	Blue		470	20	90	180	360	20	3.3	20	100	5	180 ⁺³ ₋₃	30	100	5	-40 to +85	-40 to +100		
	Red	SMLVN6RGB1U ^{*5}	624	20	450	700	1,100	20	2.1	20	10	5	400 ⁺³ ₋₃	50	100	5	-40 to +85	-40 to +100		
	Green		527	20	710	1,200	1,800	20	3.3	20	—	—	400 ⁺³ ₋₃	40	100	—	-40 to +85	-40 to +100		
	Blue		470	20	220	400	560	20	3.3	20	—	—	400 ⁺³ ₋₃	40	100	—	-40 to +85	-40 to +100		
	Red	SMLVN6RGB1W ^{*4}	624	20	450	700	1,100	20	2.1	20	10	5	400 ⁺³ ₋₃	50	100	5	-40 to +85	-40 to +100		
	Green		527	20	710	1,200	1,800	20	3.3	20	—	—	400 ⁺³ ₋₃	40	100	—	-40 to +85	-40 to +100		
	Blue		470	20	220	400	560	20	3.3	20	—	—	400 ⁺³ ₋₃	40	100	—	-40 to +85	-40 to +100		
	Red	SMLVN6RGB7W	624	20	280	500	900	20	2.1	20	10	5	180 ⁺³ ₋₃	30	100	5	-40 to +85	-40 to +100		
	Green		527	20	560	1,000	1,800	20	3.5	20	—	—	180 ⁺³ ₋₃	30	100	—	-40 to +85	-40 to +100		
	Blue		470	20	140	300	560	20	3.3	20	—	—	180 ⁺³ ₋₃	30	100	—	-40 to +85	-40 to +100		

3 Colors Side View type																				
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)												Absolute Maximum Ratings (T _a =25°C)					
			Dominant Wavelength λ _D		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R			Power Dissipation P _D	Forward Current I _F	Peak Forward Current I _{FP}	Reverse Voltage V _R	Operating Temperature T _{opr}	Storage Temperature T _{stg}
			Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)	P _D (mW)	I _F (mA)	I _{FP} (mA)	V _R (V)	T _{opr} (°C)	T _{stg} (°C)		
	Red	MSL0104RGBU ^{*5}	624	20	450	700	1,100	20	2.1	20	10	5	400 ⁺³ ₋₃	50	100	5	-40 to +85	-40 to +100		
	Green		527	20	710	1,200	1,800	20	3.3	20	—	—	400 ⁺³ ₋₃	40	100	—	-40 to +85	-40 to +100		
	Blue		470	20	220	400	560	20	3.2	20	—	—	400 ⁺³ ₋₃	40	100	—	-40 to +85	-40 to +100		
	Red	MSL0104RGBW ^{*4}	624	20	450	700	1,100	20	2.1	20	10	5	400 ⁺³ ₋₃	50	100	5	-40 to +85	-40 to +100		
	Green		527	20	710	1,200	1,800	20	3.3	20	—	—	400 ⁺³ ₋₃	40	100	—	-40 to +85	-40 to +100		
	Blue		470	20	220	400	560	20	3.2	20	—	—	400 ⁺³ ₋₃	40	100	—	-40 to +85	-40 to +100		
	Red	MSL0601RGBU	624	20	600	700	830	20	2.1	20	10	5	300 ⁺² ₋₃	40	100	5	-40 to +85	-40 to +100		
	Green		527	20	1,100	1,250	1,500	20	3.3	20	10	5	300 ⁺² ₋₃	30	100	5	-40 to +85	-40 to +100		
Blue		470	20	290	360	500	20	3.2	20	10	5	300 ⁺² ₋₃	30	100	5	-40 to +85	-40 to +100			

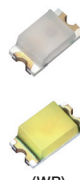
3 Colors Side View type																			
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						
			Dominant Wavelength λ _D		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D	Forward Current I _F	Peak Forward Current I _{FP}	Reverse Voltage V _R	Operating Temperature T _{opr}	Storage Temperature T _{stg}
			Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)	
 3 Colors Side View type 6.9×2.2 (t=2.15)	Red	MSL0104RGBU*5	624	20	450	700	1,100	20	2.1	20	10	5	400 ⁺³ ₋₃	50	100	5	-40 to +85	-40 to +100	
	Green		527	20	710	1,200	1,800	20	3.3	20	—	—	400 ⁺³ ₋₃	40	100	—	-40 to +85	-40 to +100	
	Blue		470	20	220	400	560	20	3.2	20	—	—	400 ⁺³ ₋₃	40	100	—	-40 to +85	-40 to +100	
	Red	MSL0104RGBW*4	624	20	450	700	1,100	20	2.1	20	10	5	400 ⁺³ ₋₃	50	100	5	-40 to +85	-40 to +100	
	Green		527	20	710	1,200	1,800	20	3.3	20	—	—	400 ⁺³ ₋₃	40	100	—	-40 to +85	-40 to +100	
	Blue		470	20	220	400	560	20	3.2	20	—	—	400 ⁺³ ₋₃	40	100	—	-40 to +85	-40 to +100	
 2.9×1.35 (t=1.0)	Red	MSL0601RGBU	624	20	600	700	830	20	2.1	20	10	5	300 ⁺³ ₋₃	40	100	5	-40 to +85	-40 to +100	
	Green		527	20	1,100	1,250	1,500	20	3.3	20	10	5	300 ⁺³ ₋₃	30	100	5	-40 to +85	-40 to +100	
	Blue		470	20	290	360	500	20	3.2	20	10	5	300 ⁺³ ₋₃	30	100	5	-40 to +85	-40 to +100	

*1 Duty: 1/20, 1ms
 *2 Total power dissipation in case of lighting three colors. (when lighting three colors, it will be reduced down to 30% of it.)
 *3 50mmx50mm, Substrate: FR4; t=1.6mm Cu foil: t=0.07mm *4 Epoxy resin
 *5 Silicon resin

Low Current Type																				
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)												Absolute Maximum Ratings (T _a =25°C)					
			Dominant Wavelength λ _D / Chromaticity Coordinates (x, y)		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	
			Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)								
 PICOLED™-eco 1.0x0.6 (t=0.2)	Red	SML-P11VT (R)	626	1	2	4	6	1	1.8	1	10	5	50	20	100 ^{*1}	5	-40 to +85	-40 to +100		
		SML-P11UT (R)	621	1	1	3	6	1	1.8	1	10	5	50	20	100 ^{*1}	5	-40 to +85	-40 to +100		
	Orange	SML-P11DT (R)	605	1	4	7	16	1	1.9	1	10	5	52	20	100 ^{*1}	5	-40 to +85	-40 to +100		
	Yellow	SML-P11YT (R)	586	1	4	8	16	1	1.9	1	10	5	52	20	100 ^{*1}	5	-40 to +85	-40 to +100		
	Yellow Green	SML-P11MT (R)	569	1	1	2	4	1	1.9	1	10	5	54	20	100 ^{*1}	5	-40 to +85	-40 to +100		
 PICOLED™ 1.0x0.6 (t=0.2) (WB)	Green	SMLP14ECNW	527	5	56	110	220	5	3.0	5	100	5	34	10	50 ^{*1}	5	-40 to +85	-40 to +100		
	Blue	SMLP14BCNW	470	5	9	25	56	5	2.9	5	100	5	33	10	50 ^{*1}	5	-40 to +85	-40 to +100		
	White	SMLP14WBCN1W	(x, y) (0.30, 0.30)	5	90	180	360	5	2.9	5	100	5	33	10	50 ^{*1}	5	-40 to +85	-40 to +100		
  (WB) 1.6x0.8 (t=0.55)	Red	New CSL1901VW	630	2	1.6	4.8	6.3	2	1.8	2	10	5	44	20	100 ^{*1}	5	-40 to +85	-40 to +100		
		New CSL1901UW	620	2	2.5	6	10	2	1.8	2	10	5	44	20	100 ^{*1}	5	-40 to +85	-40 to +100		
	Orange	New CSL1901DW	605	2	6.3	9.4	25	2	1.8	2	10	5	44	20	100 ^{*1}	5	-40 to +85	-40 to +100		
	Yellow	New CSL1901YW	590	2	6.3	9.4	25	2	1.8	2	10	5	44	20	100 ^{*1}	5	-40 to +85	-40 to +100		
	Yellow Green	New CSL1901MW	570	2	1	3	4	2	1.8	2	10	5	44	20	100 ^{*1}	5	-40 to +85	-40 to +100		
	Green	SMLD12EN1W	527	5	56	140	220	5	3.0	5	10	5	70	20	100 ^{*1}	5	-40 to +100	-40 to +100		
	Blue Green	SMLD12E2N1W	505	5	56	120	140	5	2.9	5	10	5	66	20	100 ^{*1}	5	-40 to +100	-40 to +100		
		SMLD12E3N1W	496	5	56	85	140	5	2.9	5	10	5	66	20	100 ^{*1}	5	-40 to +100	-40 to +100		
	Blue	SMLD12BN1W	470	5	14	40	56	5	2.9	5	10	5	66	20	100 ^{*1}	5	-40 to +100	-40 to +100		
White	SMLD12WBN1W	(x, y) (0.295, 0.280)	5	56	120	220	5	2.9	5	10	5	66	20	100 ^{*1}	5	-40 to +100	-40 to +100			
 1.6x0.8 (t=0.55)	Yellow Green	SML-D22MUW	570	5	6	10	16	5	2.0	5	10	5	67	25	100 ^{*1}	5	-40 to +105	-40 to +110		
	Red		620	5	10	16	25	5	1.9	5	10	5	65	25	100 ^{*1}	5	-40 to +105	-40 to +110		
	Yellow	SML-D22YVW	588	5	16	25	40	5	2.0	5	10	5	67	25	100 ^{*1}	5	-40 to +105	-40 to +110		
	Red		629	5	10	16	25	5	1.9	5	10	5	65	25	100 ^{*1}	5	-40 to +105	-40 to +110		
 1.3x1.5 (t=0.6)	Blue	SML522BUNW	470	5	9	22	36	5	2.9	5	10	5	66	20	60 ^{*1}	5	-40 to +85	-40 to +100		
	Red		624	5	10	21	40	5	1.9	5	10	5	50	20	60 ^{*1}	5	-40 to +85	-40 to +100		

*1 Duty: 1/10, 1kHz
 *Luminous intensity for white color is noted with chromaticity coordinate (x, y).
 Note: PICOLED™ is a trademark or a registered trademark of ROHM Co., Ltd.

SMD LEDs (Automotive Grade)

Automotive mold type 0603 (1608M)																				
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						Automotive Grade AEC-Q101/ AEC-Q102	
			Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)		Storage Temperature T _{stg} (°C)
			Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)								
 (WB)	Red	SML-D15VW (C)	630	20	71	90	112	20	2.0	20	10	12	84	35	100 ^{*1}	12	-40 to +100	-40 to +100	YES	
		SML-D13VW (C)			35.5	55	90						72	30						
		SML-D12V8W (C)			16	40	100						5	54						20
		SML-D15UW (C)	620	20	90	112	140	20	2.0	20	10	12	84	35	100 ^{*1}	12	-40 to +100	-40 to +100	YES	
		SML-D13UW (C)			56	85	160						72	30						
		SML-D12U8W (C)			25	63	160						5	54						20
		SML-D15U2W (C)	615	20	112	140	180	20	2.0	20	10	12	84	35	100 ^{*1}	12	-40 to +100	-40 to +100	YES	
	Orange	SML-D15DW (C)	605	20	180	224	280	20	2.0	20	10	12	84	35	100 ^{*1}	12	-40 to +100	-40 to +100	YES	
		SML-D13DW (C)			71	120	180						72	30						
		SML-D12D8W (C)			40	100	250						5	54						20
	Yellow	SML-D15YW (C)	590	20	180	224	280	20	2.1	20	10	12	87	35	100 ^{*1}	12	-40 to +100	-40 to +100	YES	
		SML-D12Y8W (C)			25	63	160						5	54						20
		SML-D12W8W (C)	587.5	2	4.5	7.1	11.2	2	2.0	2	10	12	52	20	100 ^{*1}	12	-40 to +100	-40 to +100	YES	
	Yellow Green	SML-D13WW (C)	587	20	71	110	180	20	2.1	20	10	12	75	30	100 ^{*1}	12	-40 to +100	-40 to +100	YES	
		SML-D12M8W (C)	572	20	10	25	63	20	2.2	20	10	5	54	20	100 ^{*1}	5	-40 to +100	-40 to +100	YES	
		SML-D15MW (C)	571	20	56	71	90	20	2.1	20	10	12	87	35	100 ^{*1}	12	-40 to +100	-40 to +100	YES	
		SML-D13MW (C)			28	45	71						75	30						
	Green	SML-D13FW (C)	564	20	14	22	35.5	20	2.1	20	10	12	75	30	100 ^{*1}	12	-40 to +100	-40 to +100	YES	
SML-D12P8W (C)		560	20	2.5	6.3	16	20	2.2	20	10	5	54	20	100 ^{*1}	5	-40 to +100	-40 to +100	YES		
Blue	SMLD12BN1W (C)	470	5	14	40	56	5	2.9	5	10	12	66	20	100 ^{*1}	12	-40 to +100	-40 to +100	YES		
1.6×0.8 (t=0.55)	White	SMLD12WBN1W (C)	(x, y) (0.295, 0.28)	5	56	120	220	5	2.9	5	10	12	66	20	100 ^{*1}	12	-40 to +100	-40 to +100	YES	
 1.6×0.8 (t=1.06)	Green	CSL1001ET (C)	527	5	90	140	224	5	3.0	5	10	5	35	10	50 ^{*1}	5	-40 to +100	-40 to +100	YES	
	Blue	CSL1001BT (C)	470	1	4	6	8	1	2.8	1	10	5	33	10	50 ^{*1}	5	-40 to +100	-40 to +100	YES	
Automotive Mold type 0805 (20125M)																				
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						Automotive Grade AEC-Q101/ AEC-Q102	
			Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)		Storage Temperature T _{stg} (°C)
			Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)								
 2.0×1.25 (t=0.8)	Red	SML-H12V8T (C)	630	20	16	25	63	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	YES	
		SML-H12U8T (C)	620	20	25	40	100	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	YES	
	Orange	SML-H12D8T (C)	605	20	40	63	160	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	YES	
	Yellow	SML-H12Y8T (C)	590	20	40	63	160	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	YES	
	Yellow Green	SML-H12M8T (C)	572	20	10	25	40	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	YES	
	Green	SML-H12P8T (C)	560	20	2.5	4	10	20	2.2	20	10	5	54	20	100 ^{*2}	5	-40 to +85	-40 to +100	YES	
Automotive reflector type 0603 (1608M)																				
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						Automotive Grade AEC-Q101/ AEC-Q102	
			Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)		Storage Temperature T _{stg} (°C)
			Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)								
 1.6×0.8 (t=0.55)	White	New CSL1101WBAW (C)	(x, y) (0.282, 0.249)	5	90	155	220	5	2.9	5	10	5	68	20	100 ^{*1}	5	-40 to +110	-40 to +110	YES	
		New CSL1101WBBW (C)	(x, y) (0.261, 0.261)	5	90	155	220	5	2.9	5	10	5	68	20	100 ^{*1}	5	-40 to +110	-40 to +110	YES	
		New CSL1101WBCW (C)	(x, y) (0.303, 0.294)	5	90	155	220	5	2.9	5	10	5	68	20	100 ^{*1}	5	-40 to +110	-40 to +110	YES	
		New CSL1101WBDW (C)	(x, y) (0.284, 0.303)	5	90	155	220	5	2.9	5	10	5	68	20	100 ^{*1}	5	-40 to +110	-40 to +110	YES	
		New CSL1102WBAW (C)	(x, y) (0.282, 0.249)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100 ^{*1}	5	-40 to +110	-40 to +110	YES	
		New CSL1102WBBW (C)	(x, y) (0.261, 0.261)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100 ^{*1}	5	-40 to +110	-40 to +110	YES	
		New CSL1102WBCW (C)	(x, y) (0.303, 0.294)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100 ^{*1}	5	-40 to +110	-40 to +110	YES	
		New CSL1102WBDW (C)	(x, y) (0.284, 0.303)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100 ^{*1}	5	-40 to +110	-40 to +110	YES	
Automotive reflector type 0805 (201258M)																				
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						Automotive Grade AEC-Q101/ AEC-Q102	
			Dominant Wavelength λ _d / Chromaticity Coordinates (x, y)		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)		Storage Temperature T _{stg} (°C)
			Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)								
 (WB) 2.0×1.25 (t=0.8)	Green	SMLMN2ECT (C)	527	5	56	140	360	5	3.0	5	10	12	70	20	100 ^{*2}	12	-40 to +100	-40 to +100	YES	
	Blue	SMLMN2BCT (C)	470	5	14	36	90	5	2.9	5	10	12	68	20	100 ^{*2}	12	-40 to +100	-40 to +100	YES	
	White	SMLMN2WB1CW (C)	(x, y) (0.30, 0.28)	5	56	140	220	5	2.9	5	10	12	68	20	100 ^{*2}	12	-40 to +100	-40 to +100	YES	

*1 Duty≤1/10, 1kHz *2 Duty≤1/10, 1kHz

*Luminous intensity for white color is noted with chromaticity coordinate (x, y).

SMD LEDs (Automotive Grade)

Automotive reflector type PLCC (3528M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ _D		Luminous Intensity I _v				Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	
			Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)							
	Red	SML-Z14VT (C)	630	20	56	112	180	20	1.9	20	10	12	168	70	200*2	12	-40 to +100	-40 to +100	YES
		SML-Z14UT (C)	620	20	112	224	355	20	1.9	20	10	12	168	70	200*2	12	-40 to +100	-40 to +100	YES
	Orange	SML-Z14DT (C)	605	20	140	280	450	20	1.9	20	10	12	168	70	200*2	12	-40 to +100	-40 to +100	YES
	Yellow	SML-Z14YT (C)	589	20	140	280	450	20	2.0	20	10	12	175	70	200*2	12	-40 to +100	-40 to +100	YES
	Yellow Green	SML-Z14MT (C)	571	20	45	90	140	20	2.0	20	10	12	175	70	200*2	12	-40 to +100	-40 to +100	YES
	Green	SML-Z14FT (C)	564	20	22.4	45	71	20	2.0	20	10	12	175	70	200*2	12	-40 to +100	-40 to +100	YES
		SML-Z14PT (C)	560	20	11.2	22.4	35.5	20	2.0	20	10	12	175	70	200*2	12	-40 to +100	-40 to +100	YES
	Blue Green	SMLZ24E2N3T (C)	505	20	900	1,140	1,800	20	3.2	20	—	—	152	40	100*2	—	-40 to +100	-40 to +100	YES
	3.5×2.8 (t=1.9)	Blue	SMLZ24BN3T (C)	470	20	220	300	450	20	3.3	20	—	—	114	30	100*2	—	-40 to +100	-40 to +100

Automotive Reverse Mount type

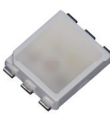
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ _D		Luminous Intensity I _v				Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FM} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{op} (°C)	Storage Temperature T _{stg} (°C)	
			Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)							
 3.4x1.25 (l±1.1)	Red	SML-811VT (C)	630	10	11.2	22.4	45	10	1.95	10	100	5	62	25	100*2	5	-40 to +85	-40 to +100	YES
		SML-811UT (C)	620	10	11.2	22.4	45	10	1.95	10	100	5	62	25	100*2	5	-40 to +85	-40 to +100	YES
	Orange	SML-811DT (C)	605	10	11	22	45	10	2.0	10	100	5	62	25	100*2	5	-40 to +85	-40 to +100	YES
	Yellow	SML-811WT (C)	590	10	14	28	56	10	1.95	10	100	5	62	25	100*2	5	-40 to +85	-40 to +100	YES

Automotive Reverse Surface Mount Circular type

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ _D		Luminous Intensity I _v				Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	
			Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)							
	Red	CSL0903VT (C)	630	20	560	800	1,120	20	2.1	20	10	12	87	35	100*1	12	-40 to +110	-40 to +110	YES
		CSL0902VT (C)			180	280	355						75	30					YES
		CSL0901VT (C)			140	180	280						75	30					YES
		CSL0903UT (C)	620	20	900	1,200	1,800	20	2.1	20	10	12	87	35	100*1	12	-40 to +110	-40 to +110	YES
		CSL0902UT (C)			280	450	560						75	30					YES
		CSL0901UT (C)			180	280	355						75	30					YES
	Orange	CSL0903DT (C)	605	20	900	1,400	1,800	20	2.1	20	10	12	87	35	100*1	12	-40 to +110	-40 to +110	YES
		CSL0902DT (C)			450	710	900						75	30					YES
		CSL0901DT (C)			280	400	560						75	30					YES
	Yellow	CSL0903YT (C)	590	20	560	800	1,120	20	2.1	20	10	12	87	35	100*1	12	-40 to +110	-40 to +110	YES
		CSL0902YT (C)			355	560	710						75	30					YES
		CSL0901YT (C)			224	320	450						75	30					YES
	Yellow Green	CSL0901WT (C)	587	20	180	280	355	20	2.1	20	10	12	75	30	100*1	12	-40 to +110	-40 to +110	YES
		CSL0901MT (C)	571	20	90	120	180	20	2.1	20	10	12	75	30	100*1	12	-40 to +110	-40 to +110	YES
		CSL0902MT (C)	570	20	112	150	224	20	2.1	20	10	12	87	35	100*1	12	-40 to +110	-40 to +110	YES
	Green	CSL0901PT (C)	560	20	14	25	35.5	20	2.1	20	10	12	75	30	100*1	12	-40 to +110	-40 to +110	YES
		CSL0902ET (C)	527	20	900	1,200	1,800	20	3.4	20	10	5	114	30	100*1	5	-40 to +110	-40 to +110	YES
		CSL0901ET (C)		5	220	360	450	5	3.0	5			70	20					YES
	Blue	CSL0902BT (C)	470	20	220	360	450	20	3.3	20	10	5	114	30	100*1	5	-40 to +110	-40 to +110	YES
		CSL0901BT (C)		5	45	56	90	5	2.9	5			68	20					YES

1.6×0.8 (t=1.24)

Automotive 3color type

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ _D		Luminous Intensity I _v				Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FM} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)	
			Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)							
 3.5×2.8 (t=0.6)	Red		621	20	600	750	900	20	2.1	20	10	5	400	50	100	5	-40 to +100	-40 to +100	
	Green	New SMLVN6RGBFU1 (C)	525	20	1,440	1,800	2,160	20	3.3	20	—	—	400	40	100	—	-40 to +100	-40 to +100	YES
	Blue		470	20	320	430	540	20	3.3	20	—	—	400	40	100	—	-40 to +100	-40 to +100	

*1 Duty≤1/10, 1kHz *2 Duty≤1/10, 1kHz

SMD LEDs

●Product No. Configuration

◀Chip LEDs▶

[SML series/SCM series]

■Exclude Mono-color (Blue (B), Green (E), White (WB), RGB, 2 Colors Blue/Red

				Chip control symbol	Remarks					Special control symbol							
S	M	L	—	D	1	2	V		8		W	T	8	6			
Series name				Package shape		Type of Element	Color		Resin color	Packaging type		Luminous intensity rank					
SML chip LED series				P1 1.0x0.6 t=0.2mm E1 1.6x0.8 t=0.36mm D1/D2 1.6x0.8 t=0.55mm H1 2.0x1.25 t=0.8mm M1 2.0x1.25 t=0.8mm D1/O2 3.0x2.0 t=1.3mm Z1/Y1 3.5x2.8 t=1.9mm A1 1.6x1.15 t=0.55mm S1/B2 3.4x1.25 t=1.1mm S1 3.2x1.6 t=1.85mm P2 1.0x1.0 t=0.2mm S2 1.5x1.3 t=0.6mm		0 Low luminous intensity type 1 Low current type 2 High luminous intensity type 3 4 Ultra high luminous intensity type 5 8	L Red V Red U Red D Orange Y3 Yellow Y Yellow W Yellow Y2 Yellow M2 Yellow green	M Yellow green F Green P Green MV Yellow green/Red MU Yellow green/Red MD Yellow green/Orange MY Yellow green/Yellow YV Yellow/Red R Infrared T Phototransistor	T Transparent colorless W Milky white B Black	(in case of S1 series) T86 Cathode at sprocket hole side (the top) T86 Cathode at sprocket hole side (the back) T68 Cathode at sprocket hole side (the top)		Refer to specification					
SCM chip LED series				01 3.0x1.5 t=2.2mm													

[SML series/SCM series]

■Mono-color (Blue (B), Green (E), White (WB), RGB, 2 Colors Blue/Red

2 Colors Blue/Red				Chip control symbol	Remarks	(SMLD12E2/D1E3 only)			Special control symbol									
S	M	L	E	N	3	W	B	C	8		W	1						
Series name		Package shape	Type of Element	Color	Resin color		Packaging type		Luminous intensity rank									
SML chip LED series SCM chip LED series		P1 1.0×0.6 t=0.2mm EN 1.6×0.8 t=0.36mm D1 1.6×0.8 t=0.55mm MN/M2 2.0×1.25 t=0.8mm Z2/ZN 3.5×2.8 t=1.9mm A1 1.6×1.15 t=0.55mm S1 3.2×1.6 t=1.85mm S2 1.5×1.3 t=0.6mm P34 1.0×1.0 t=0.2mm P36 1.5×1.0 t=0.2mm VN 3.5×2.8 t=0.6mm O1 3.0×2.0 t=1.3mm K1/K2 4.5×2.0 t=0.6mm	2 High luminous intensity type 3 4 Ultra high luminous intensity type 6 8	E Green E2/E3 Blue Green B Blue PB Green SB Sapphire blue WB White BU Blue/Red RGB Red/Green/Blue	Resin color T Transparent Colorless W Milky white Resin (in case of VN6 series) U Silicone W Epoxy		T86 Cathode at sprocket hole side (the top) (in case of white, RGB) 1 Cathode at sprocket hole side (the top) 3 Cathode at sprocket hole side (the top 2mm pitch) (in case of S1 and 81 series) T86 Cathode at sprocket hole side (the back) T68 Cathode at sprocket hole side (the top) *81 series is nothing "T68".		Refer to specification									

[CSL series]

[CSL series]		Chip control symbol		Remarks		Chromaticity rank (for white LED)		Special control symbol											
C	S	L	0	7	0	1	D					T	5						
Series name		Package shape		Color		Resin color		Packaging type		Luminous intensity rank		Special control symbol		Refer to specification					
CSL chip LED series		04 2.8x1.15 t=0.8mm 07 2.9x2.4 t=3.1mm 09 1.6x0.8 t=1.24mm 10 1.6x0.8 t=1.06mm 11 1.6x0.8 t=0.55mm 19 1.6x0.8 t=0.55mm		V Red U Red D Orange Y Yellow W Yellow		M Yellow green P Green E Green B Blue WB White SB Sapphire blue		T Transparent Colorless W Milky white		1 Cathode at sprocket hole side (the top) 5 Cathode at sprocket hole side (big reel)									

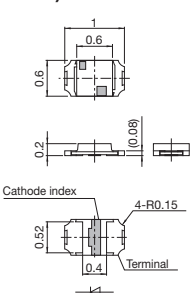
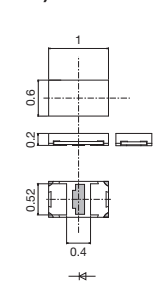
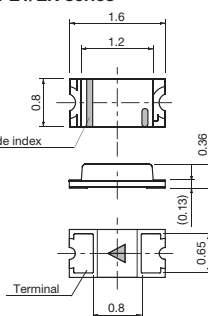
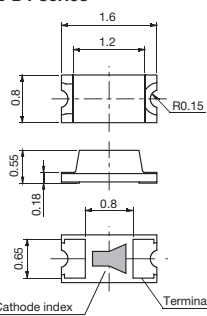
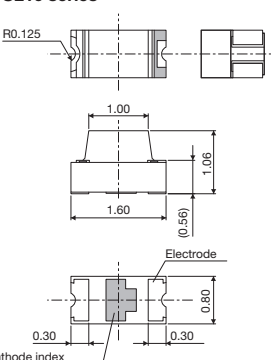
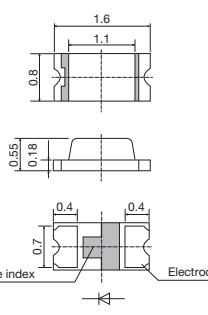
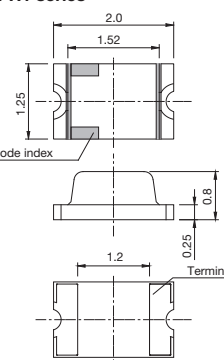
[MSL series]

Series name		Package shape	Color	Chip control symbol	Remarks	Resin color	Packaging type	Luminous intensity rank	Special control symbol
MSL Multi color series		01 6.9x2.2 t=2.15mm 06 2.9x1.35 t=1.0mm	RGB Red/Green/Blue	04RGB	U1	U Silicone W Epoxy	1 Cathode at sprocket hole side (the top)		
									Refer to specification

SMD LEDs

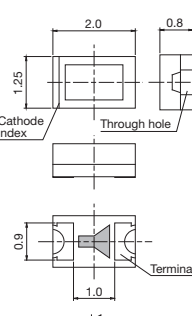
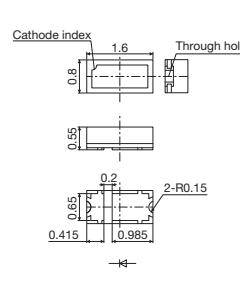
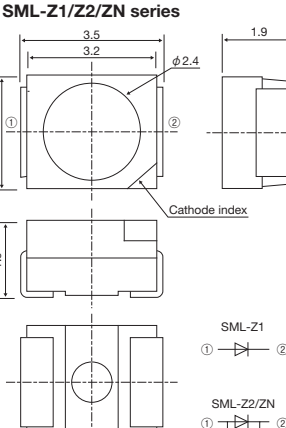
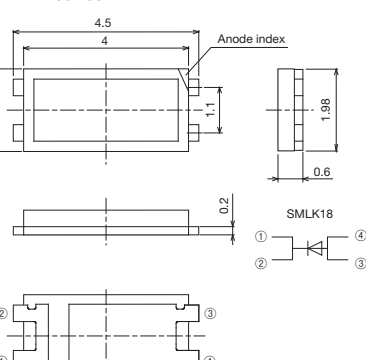
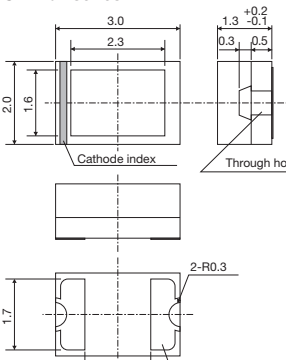
●Dimensions (Unit: mm)

◁Mold type▷

● SML-P1 series (PICOLED™) 	● SMLP14 series (PICOLED™) 	● SML-E1/EN series 	● SML-D1 series 
● CSL10 series 	● CSL19 series 	● SML-H1 series 	

Note: PICOLED™ is a trademark or a registered trademark of ROHM Co., Ltd.

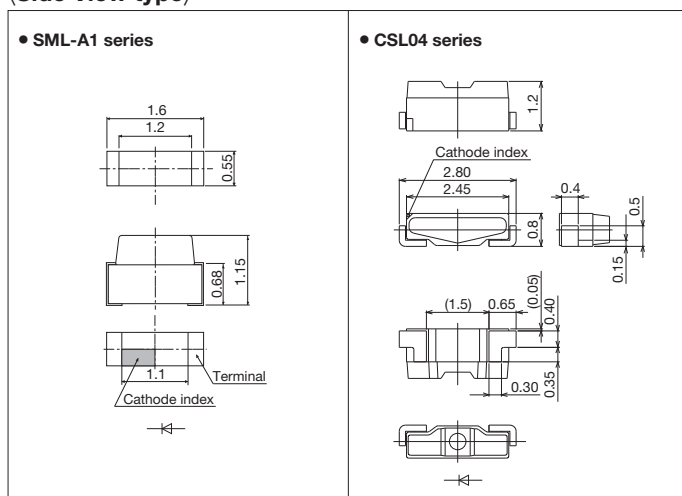
◁Reflector type▷

● SML-M1/MN series 	● CSL11 series 	● SML-Z1/Z2/ZN series 
● SMLK1 series 	● SML-O1 series 	

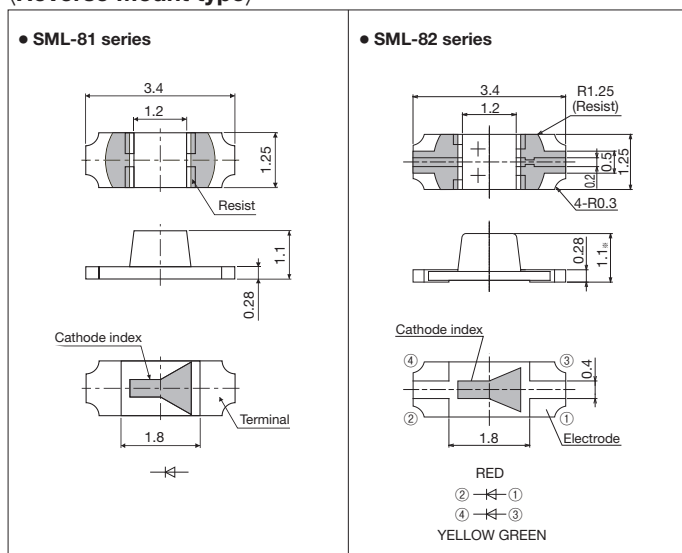
*For further information, please refer to the data sheets.

● Dimensions (Unit: mm)

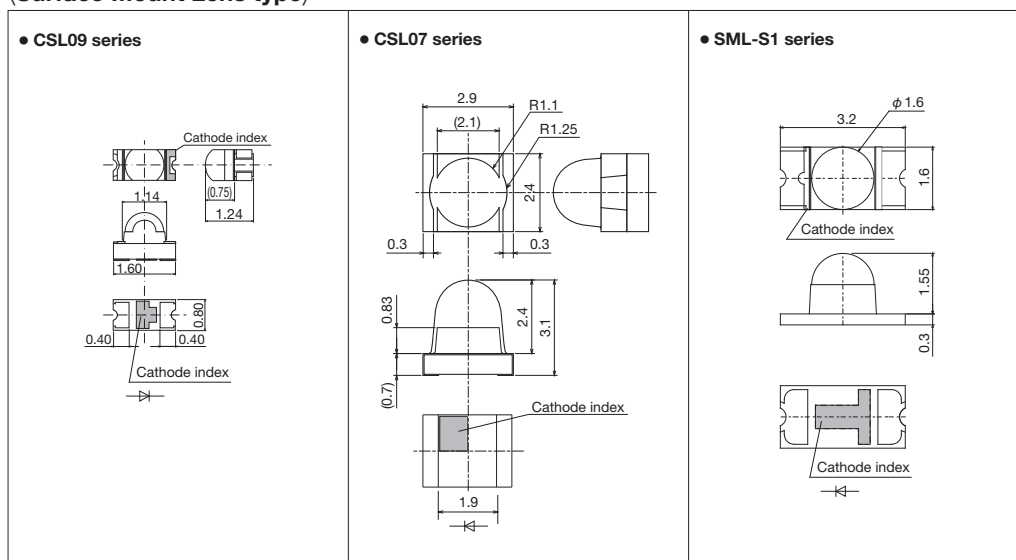
〈Side View type〉



〈Reverse Mount type〉



〈Surface Mount Lens type〉

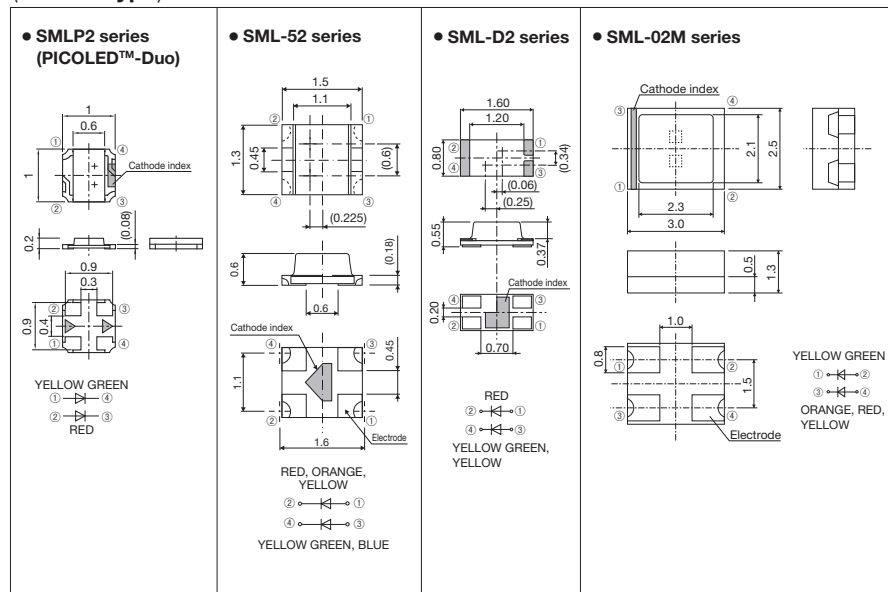


*For further information, please refer to the data sheets.

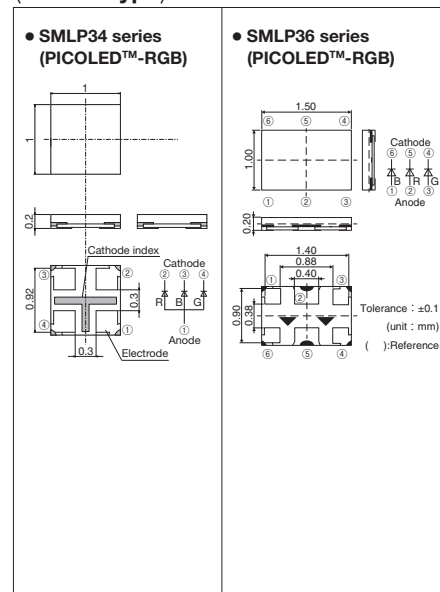
SMD LEDs

● Dimensions (Unit: mm)

<2 Color type>

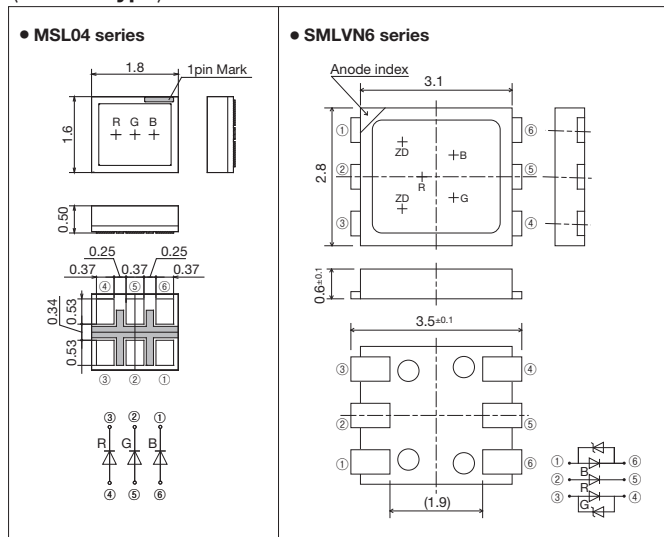


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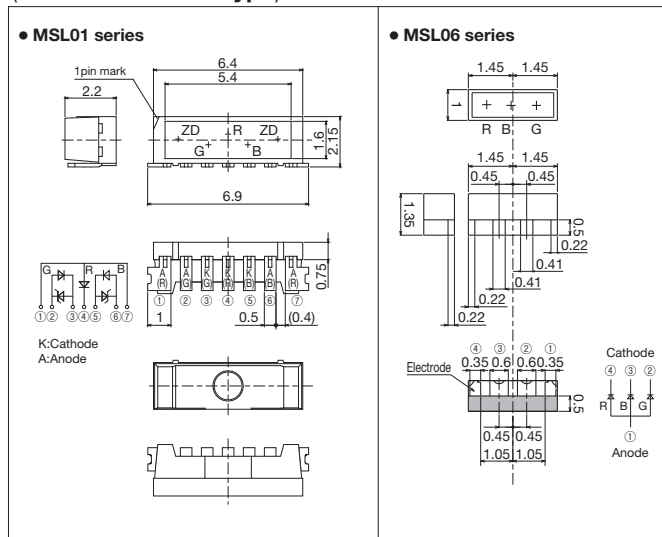


Note: PICOLED™ is a trademark or a registered trademark of ROHM Co., Ltd.

<3 Color type>



<3 Color Side View type>



*For further information, please refer to the data sheets.

Through-hole LEDs

ROHM offers a wide variety of through-hole LEDs, including lamps that can be automatically mounted onto the PCB as well as high luminous intensity units suitable for public outdoor displays.

Red (V, U) Quick Reference of Luminous intensity

	Viewing angle (2θ1/2)	Resin Color	Luminous intensity (mcd)	3.6 to 5.6	5.6 to 9	9 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 800	800 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000
φ3 Circular type	40°	Transparent Colored	20									SLI-343URC											
			10									SLI-343V8RC											
		Diffused Colored	20									SLI-343U8RC											
			10									SLI-343URC (W)											
	85°	Transparent Colored	20									SLR-343VC											
			10									SLI-343UR											
		Diffused Colored	20									SLI-343V8R											
			10									SLI-343U8R											
φ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20									SLR-343VR											
			10									SLR-332VC											
		Diffused Colored	20									SLI-325URC (W)											
			10									SLR-325VR											
φ3 Flat disc type	35°	Transparent Colored	10									SLR-322VC											
	50°	Diffused Colored	10									SLR-322VR											
φ4 Oval type	140°	Diffused Colored	20																				
	10°																						
φ5 Circular type	20°	Transparent Colorless	20																				
			10																				
	40°	Transparent Colored	20																				
			10																				

Note: Luminous intensity on specification sheet include tolerance of within ±10%.

Orange (D) Quick Reference of Luminous intensity

	Viewing angle (2θ1/2)	Resin Color	Luminous intensity (mcd)	2.2 to 3.6	3.6 to 5.6	5.6 to 9	9 to 18	18 to 28	28 to 45	45 to 56	56 to 90	90 to 220	220 to 280	280 to 330	330 to 710	710 to 900	900 to 1000	1000 to 1350	1350 to 1500	1500 to 1650	1650 to 3000	3000 to 5200	5200 to 7500
φ3 Circular type	40°	Transparent Colored	20																				
			10																				
		Diffused Colored	20																				
			10																				
	85°	Transparent Colored	20																				
			10																				
		Diffused Colored	20																				
			10																				
φ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20																				
			10																				
		Diffused Colored	20																				
			10																				
φ3 Flat disc type	35°	Transparent Colored	10																				
	50°	Diffused Colored	10																				
φ4 Oval type	140°	Diffused Colored	20																				
	10°																						
φ5 Circular type	20°	Transparent Colorless	20																				
			10																				
	40°	Transparent Colored	20																				
			10																				

Note: Luminous intensity on specification sheet include tolerance of within ±10%.

Yellow (Y) Quick Reference of Luminous intensity

	Viewing angle (2θ1/2)	Resin Color	Luminous intensity (mcd)	2.2 to 3.6	3.6 to 5.6	5.6 to 9	9 to 18	18 to 28	28 to 45	45 to 56	56 to 90	90 to 220	220 to 280	280 to 330	330 to 710	710 to 900	900 to 1000	1000 to 1350	1350 to 1500	1500 to 1650	1650 to 2200	2200 to 3600	3600 to 7500	7500 to 10000
φ3 Circular type	40°	Transparent Colored	20																					
			10																					
		Diffused Colored	20																					
			10																					
	85°	Transparent Colored	20																					
			10																					
		Diffused Colored	20																					
			10																					
φ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20																					
			10																					
		Diffused Colored	20																					
			10																					
φ3 Flat disc type	35°	Transparent Colored	10																					
	50°	Diffused Colored	10																					
φ4 Oval type	140°	Diffused Colored	20																					
	10°																							
φ5 Circular type	20°	Transparent Colorless	20																					
			10																					
	40°	Transparent Colored	20																					
			10																					

Note: Luminous intensity on specification sheet include tolerance of within ±10%.

Through-hole LEDs

Green (M, P, E) Quick Reference of Luminous intensity

	Viewing angle (2θ1/2)	Resin Color	Luminous intensity (mcd)	I _f (mA)	2.2 to 3.6	3.6 to 5.6	5.6 to 9	9 to 18	18 to 28	28 to 45	45 to 56	56 to 71	71 to 110	110 to 220	220 to 330	330 to 710	710 to 900	900 to 1100	1100 to 1350	1350 to 1650	1650 to 2200	2200 to 3600	3600 to 5200	5200 to 7500	7500 to 10000	10000 to 20000	20000 to 36000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	40°	Transparent Colored	20	SLI-343MC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Note: Luminous intensity on specification sheet include tolerance of within ±10%.

Blue (B) Quick Reference of Luminous intensity

	Viewing angle (2θ1/2)	Resin Color	Luminous intensity (mcd)	110 to 220	220 to 300	300 to 470	470 to 1000	1000 to 1350	1350 to 1500	1500 to 1650	1650 to 2200	2200 to 3000	3000 to 4700	4700 to 5500	5500 to 7500	7500 to 10000	10000 to 20000
φ3 Circular type	40°	Transparent Colorless	20	SLR343BN2T										SLR343BN4T			
φ5 Circular type	10°	Transparent Colorless	20	SLA580BNT										SLA580BNT			
	40°			SLA560BN2T										SLA560BN2T			
				SLA560BN4T										SLA560BN4T			

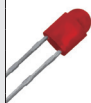
Note: Luminous intensity on specification sheet include tolerance of within ±10%.

White (WB) Quick Reference of Luminous intensity

	Viewing angle (2θ1/2)	Resin Color	Luminous intensity (mcd)	220 to 330	330 to 470	470 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000
φ3 Circular type	40°	Transparent Colorless	20	SLR343WBN2PT										
φ5 Circular type	40°	Transparent Colorless	20	SLA560WBN2PT										

Note: Luminous intensity on specification sheet include tolerance of within ±10%.

Through-hole LEDs

φ3 type																					
Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						
					Dominant Wavelength λ _d /Chromaticity Coordinates (x, y)		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D	Forward Current I _F	Peak Forward Current I _{FP}	Reverse Voltage V _R	Operating Temperature T _{opr}	Storage Temperature T _{stg}
					Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)	P _D (mW)	I _F (mA)	I _{FP} (mA)	V _R (V)	T _{opr} (°C)	T _{stg} (°C)	
 φ3 Circular type	 Pressure Release	40°	Standard	Red	SLI-343V8RC			150	330	(680)	20	2.2	20	10	9	54	20	100 ⁺²	9	-30 to +85	-40 to +100
					SLI-343V8R	639	20	100	220	(470)											
					SLI-343U8RC			150	330	(680)	20	2.2	20	10	9	54	20	100 ⁺²	9	-30 to +85	-40 to +100
				SLI-343U8R	630	20	100	220	(470)												
				Orange	SLI-343D8C			330	680	(1,500)	20	2.2	20	10	9	54	20	100 ⁺²	9	-30 to +85	-40 to +100
					SLI-343D8U	611	20	220	470	(1,000)											
					SLI-343Y8C			330	680	(1,500)	20	2.2	20	10	9	54	20	100 ⁺²	9	-30 to +85	-40 to +100
				SLI-343Y8Y	593	20	220	470	(1,000)												
				Yellow	SLI-343M8C			68	150	(330)	20	2.2	20	10	9	54	20	100 ⁺²	9	-30 to +85	-40 to +100
		SLI-343M8G	572		20																
		SLI-343P8C				10	22	(47)	20	2.2	20	10	9	54	20	100 ⁺²	9	-30 to +85	-40 to +100		
		SLI-343P8G	560	20																	
		SLI-343UR	630	20	90	350	(710)														
		SLI-343DC			500	(710)	20	1.9	20	100	9	125	50	200 ⁺²	9	-25 to +85	-30 to +100				
		SLI-343DU	611	20	90	350	(710)														
		Yellow	SLI-343YC			350	(710)	20	1.9	20	100	9	125	50	200 ⁺²	9	-25 to +85	-30 to +100			
			SLI-343YY	591	20	90	300	(710)													
			SLI-343MC			200	—	20	2.1	20	100	9	62	25	100 ⁺²	9	-25 to +80	-30 to +100			
		SLI-343MG	572	20	56	180	(45)														
		Blue	New SLR343BN2T	470	20	470	1,000	2,200	20	3.2	20	10	5	126	30	100 ⁺²	5	-20 to +80	-30 to +100		
		White	New SLR343WBN2PT	(x, y) (0.31, 0.31)	20	1,500	3,300	—	20	3.2	20	10	5	126	30	100 ⁺²	5	-20 to +80	-30 to +100		
		SLR-343VR	650	10	6	16	(45)														
		SLR-343DC			9	25	(71)	10	2.0	10	10	3	60	20	60 ⁺¹	3	-25 to +85	-30 to +100			
		SLR-343DU	610	10	6	16	(45)														
	Yellow	SLR-343YC			6	16	(45)	10	2.1	10	10	3	60	20	60 ⁺¹	3	-25 to +85	-30 to +100			
		SLR-343YY	585	10	4	10	(28)														
		SLR-343MC			9	25	(71)	10	2.1	10	10	3	75	25	60 ⁺¹	3	-25 to +85	-30 to +100			
	SLR-343MG	563	10	6	16	(45)															
	Green	New SLR343EN4T	523	20	900	2,200	—	20	3.2	20	100	5	120	30	100 ⁺²	5	-20 to +80	-30 to +100			
	Blue	New SLR343BN4T	468	20	300	680	—	20	3.2	20	100	5	120	30	100 ⁺²	5	-20 to +80	-30 to +100			
	SLI-343UR (W)	630	20	36	160	(280)															
	SLI-343DC (W)			300	(450)	20	1.9	20	100	9	125	50	200 ⁺²	9	-25 to +85	-30 to +100					
	SLI-343DU (W)	611	20	56	250	(450)															
	Yellow	SLI-343YC (W)			200	(280)	20	1.9	20	100	9	125	50	200 ⁺²	9	-25 to +85	-30 to +100				
		SLI-343YY (W)	591	20	36	160	(280)														
		SLR-332VR	650	10	4	10	(28)														
SLR-332DC			6	16	(45)	10	2.0	10	10	3	60	20	60 ⁺¹	3	-25 to +85	-30 to +100					
SLR-332DU	610	10	4	10	(28)																
Yellow	SLR-332YC			4	10	(28)	10	2.1	10	10	3	60	20	60 ⁺¹	3	-25 to +85	-30 to +100				
	SLR-332YY	585	10	2	6	(18)															
	SLR-332MC			6	16	(45)	10	2.1	10	10	3	75	25	60 ⁺¹	3	-25 to +85	-30 to +100				
SLR-332MG	563	10	6	16	(45)																

φ5 type																					
Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)						
					Dominant Wavelength λ _d /Chromaticity Coordinates (x, y)		Luminous Intensity I _v					Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D	Forward Current I _F	Peak Forward Current I _{FP}	Reverse Voltage V _R	Operating Temperature T _{opr}	Storage Temperature T _{stg}
					Typ* (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)	P _D (mW)	I _F (mA)	I _{FP} (mA)	V _R (V)	T _{opr} (°C)	T _{stg} (°C)	
 φ5 Circular type	 Pressure Release	10°	High Luminous intensity	Red	SLI-580UT			2,000	5,000	(11,000)	20	1.9	20	100	9	125	50	200 ⁺²	9	-30 to +85	-40 to +100
					SLI-580DT	630	20	1,350	5,000	(7,500)	20	1.9	20	100	9	125	50	200 ⁺²	9	-30 to +85	-40 to +100
					SLI-580YT			2,000	5,000	(7,500)	20	1.9	20	100	9	125	50	200 ⁺²	9	-30 to +85	-40 to +100
				SLA-580MT	563	20	200	470	(1,100)	20	2.3	20	10	4	75	25	60 ⁺¹	4	-25 to +85	-30 to +100	
				SLA580ENT	518	20	6,100	27,000	—	20	3.3	20	100	5	120	30	100 ⁺²	5	-20 to +80	-30 to +100	
				SLA580BNT	468	20	1,350	4,000	—	20	3.3	20	100	5	120	30	100 ⁺²	5	-20 to +80	-30 to +100	
				SLI-570U2T	630	20	2,200	4,000	(10,000)												
				SLI-570DT			900	3,000	(5,200)	20	1.9	20	100	9	125	50	200 ⁺²	9	-30 to +85	-40 to +100	
				SLI-570YT			610	2,500	(3,600)	20	1.9	20	100	9	125	50	200 ⁺²	9	-30 to +85	-40 to +100	
		SLI-570Y2T	591	20	2,200	5,200	(10,000)														
		SLA-570MT	563	20	200	470	(1,100)	20	2.3	20	10	4	75	25	60 ⁺¹	4	-25 to +85	-30 to +100			
		SLI-560DT	630	20	300	1,000	(1,650)	20	1.9	20	100	9	125	50	200 ⁺²	9	-30 to +85	-40 to +100			
		SLI-560YT			300	1,000	(1,650)	20	1.9	20	100	9	125	50	200 ⁺²	9	-30 to +85	-40 to +100			
		SLA-560MT	563	20	42	100	(240)	20	2.3	20	10	4	75	25	60 ⁺¹	4	-25 to +85	-30 to +100			
		Blue	New SLA560BN2T	470 ⁺³	20	1,000	2,200	4,700	20	3.2	20	10	5	126	30	100 ⁺²	5	-20 to +80	-30 to +100		
		White	New SLA560WBN2PT	(x, y) (0.31, 0.31)	20	1,500	3,300	6,800	20	3.2	20	10	5	126	30	100 ⁺²	5	-20 to +80	-30 to +100		
		SLR-56VR	650	10	4	10	(28)														
		SLR-56DC			9	25	(71)	10	2.0	10	10	3	60	20	60 ⁺¹	3	-25 to +85	-30 to +100			
		SLR-56DU	610	10	4	10	(28)														
		Yellow	SLR-56YC			9	25	(71)	10	2.1	10	10	3	60	20	60 ⁺¹	3	-25 to +85	-30 to +100		
			SLR-56YY	585	10	6	16	(45)													
			SLR-56MC			14	40	(110)	10	2.1	10	10	3	75	25	60 ⁺¹	3	-25 to +85	-30 to +100		
		SLR-56MG	563	10	6	16	(45)														
		Green	New SLA560EN4T	523	20	1,350	3,000	—	20	3.2	20	100	5	120	30	100 ⁺²	5	-20 to +80	-30 to +100		
	Blue	New SLA560BN4T	468	20	300	680	—	20	3.2	20	100	5	120	30	100 ⁺²	5	-20 to +80	-30 to +100			

Through-hole LEDs

Oval type																				
Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)					
					Dominant Wavelength λ _D		Luminous Intensity I _v				Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
					Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)						
Oval type φ4		140° Standard	Red	SLI-430U2R	620*3	20	220	400	(680)	20	2.0	20	10	9	75	30	100*2	9	-40 to +85	-40 to +100
			Orange	SLI-430DU	605*3	20	220	470	(680)	20	2.1	20	10	9	75	30	100*2	9	-40 to +85	-40 to +100
			Yellow	SLI-430Y2U	590*3	20	330	500	(900)	20	2.1	20	10	9	75	30	100*2	9	-40 to +85	-40 to +100
			Yellow Green	SLI-430MG	570*3	20	68	120	(220)	20	2.1	20	10	9	75	30	100*2	9	-40 to +85	-40 to +100
Other																				
Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Electrical and Optical Characteristics (T _a =25°C)										Absolute Maximum Ratings (T _a =25°C)					
					Dominant Wavelength λ _D		Luminous Intensity I _v				Forward Voltage V _F		Reverse Current I _R		Power Dissipation P _D (mW)	Forward Current I _F (mA)	Peak Forward Current I _{FP} (mA)	Reverse Voltage V _R (V)	Operating Temperature T _{opr} (°C)	Storage Temperature T _{stg} (°C)
					Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I _F (mA)	Typ (V)	I _F (mA)	Max (μA)	V _R (V)						
φ3.2 Circular type Direct Mount 5mm Pitch type		40° Low Current	Red	SLI-325URC (W)*1	630	20	36	160	(280)	20	1.9	20	100	4	48	20	60*1	4	-25 to +85	-30 to +100
				SLI-325UR (W)*1				100												
			Orange	SLI-325DC (W)*1	611	20	36	160	(280)	20	1.9	20	100	4	48	20	60*1	4	-25 to +85	-30 to +100
				SLI-325DU (W)*1				100												
			Yellow	SLI-325YC (W)*1	591	20	36	160	(280)	20	1.9	20	100	4	48	20	60*1	4	-25 to +85	-30 to +100
				SLI-325YY (W)*1				100												
		40° Standard	Red	SLR-325VC*1	650	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	-25 to +85	-30 to +100
				SLR-325VR*1			4	10	(28)											
			Orange	SLR-325DC*1	610	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	-25 to +85	-30 to +100
				SLR-325DU*1			4	10	(28)											
			Yellow	SLR-325YC*1	585	10	6	16	(45)	10	2.1	10	10	3	60	20	60*1	3	-25 to +85	-30 to +100
				SLR-325MC*1			9	25	(71)											
SLR-325MG*1	563	10	6	16	(45)	10	2.1	10	10	3	75	25	60*1	3	-25 to +85	-30 to +100				
φ3 Flat Disc type		35° Standard	Red	SLR-322VC	650	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	-25 to +85	-30 to +100
			Orange	SLR-322DC	610	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	-25 to +85	-30 to +100
			Yellow	SLR-322YC	585	10	4	10	(28)	10	2.1	10	10	3	60	20	60*1	3	-25 to +85	-30 to +100
			Yellow Green	SLR-322MC	563	10	9	25	(71)	10	2.1	10	10	3	75	25	60*1	3	-25 to +85	-30 to +100
		50° Standard	Red	SLR-322VR	650	10	4	10	(45)	10	2.0	10	10	3	60	20	60*1	3	-25 to +85	-30 to +100
			Orange	SLR-322DU	610	10	2	6	(18)	10	2.0	10	10	3	60	20	60*1	3	-25 to +85	-30 to +100
			Yellow	SLR-322YY	585	10	4	10	(28)	10	2.1	10	10	3	60	20	60*1	3	-25 to +85	-30 to +100
			Yellow Green	SLR-322MG	563	10	6	16	(45)	10	2.1	10	10	3	75	25	60*1	3	-25 to +85	-30 to +100

*SLI-325/SLR-325 series: straight taping only.

*1 Duty:1/5, 200Hz *2 Duty:1/10, 1kHz *3 Dominant Wavelength

(): Reference

Product No. Configuration (Through-hole LEDs)

Exclude Mono-color (Blue (B), Green (E), White (WB))

Chip control symbol										Remarks		Special control symbol			
S	L	I	-	3	4	3	V		8	R	C	3	F		
Series name				Package shape			Color		Resin color		Packaging type		Luminous intensity rank		
SLA 1-Die Circular type High Luminous intensity LED Lamps				343	φ3 Circular type		V Red		R <Red>-Diffused colored		3F 1-Die straight bulk		Refer to specification		
SLI 1-Die Circular type Low Current High Luminous intensity LED Lamps				332	φ3 Circular type		U Red		U <Orange>-Diffused colored		T31 Refer to taping specification				
SLR 1-Die Circular type LED Lamp				56	φ5 Circular type		U2 Red		Y <Yellow>-Diffused colored						
				580	φ5 Circular type		D Orange		G <Yellowish-green>-Diffused colored						
				570	φ5 Circular type		Y Yellow		C Transparent colored						
				580	φ5 Circular type		Y2 Yellow		T Transparent colorless						
				430	Oval type φ4		M Yellowish green								
				325	φ3.2 Circular type		P Green								
				322	φ3 Flat disc type										

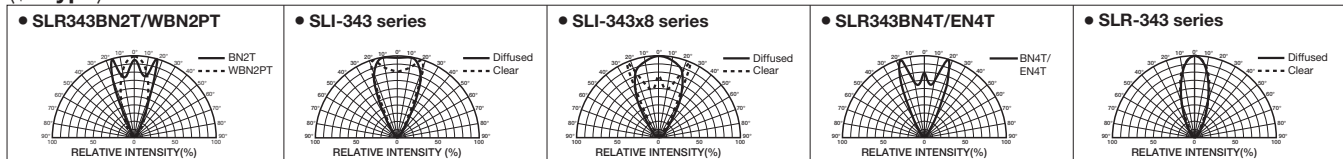
Mono-color (Blue (B), Green (E), White (WB))

Mono-color (Blue (B), Green (E), White (WB))										Chromaticity rank (for white LED) *SLA560WBD2PT is not applied.			Special control symbol				
Series name			Package shape			Color			Resin color			Packaging type			Luminous intensity rank		
SLA			343 560 580			BN EN WBN			T W			3F T31 T32			Refer to specification		
SLR			φ3 Circular type φ5 Circular type φ5 Circular type			Blue Green White			Transparent colorless Milky white			(in case of white) 3 1 2					

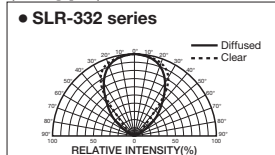
Through-hole LEDs

● Viewing Angle (Unit: deg)

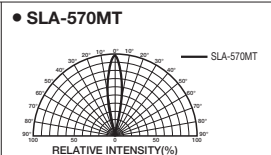
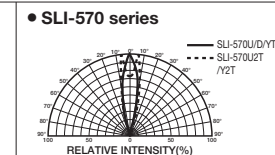
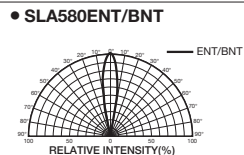
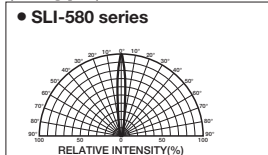
⟨ $\phi 3$ type⟩



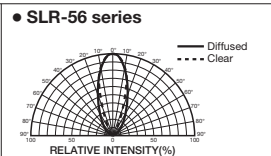
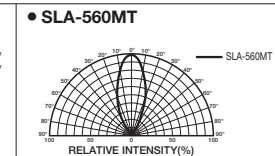
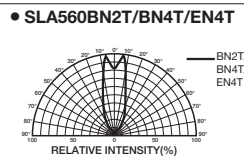
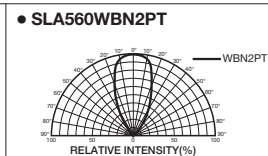
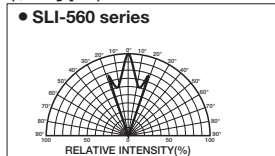
⟨ $\phi 3$ type⟩



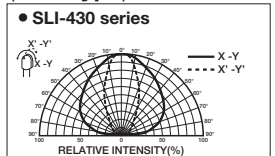
⟨ $\phi 5$ type⟩



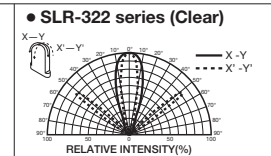
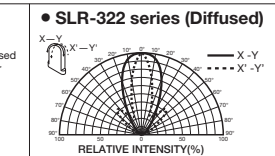
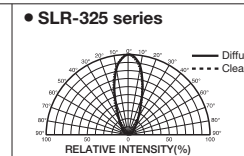
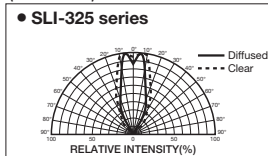
⟨ $\phi 5$ type⟩



⟨Oval type⟩



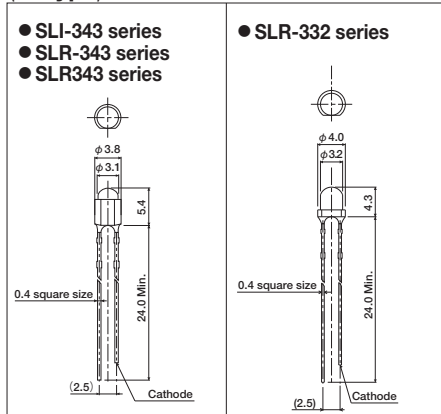
⟨Others⟩



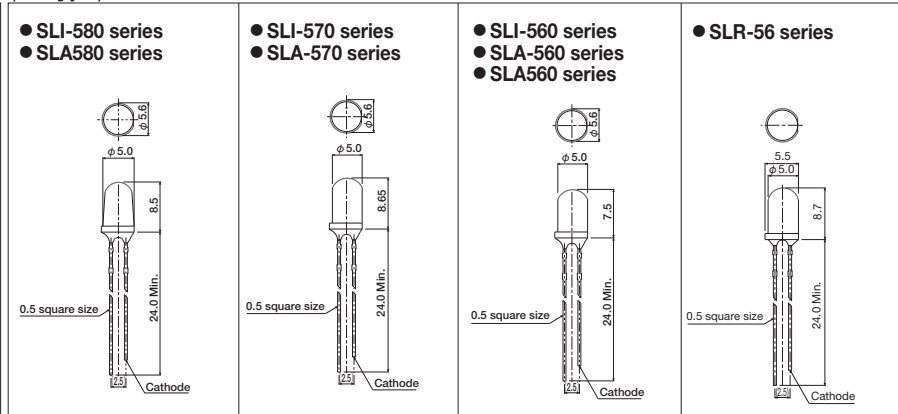
Note: Viewing Angle shown above are the reference data from standard product. For the part numbers other than the above, please contact us.

● Dimensions (Unit: mm)

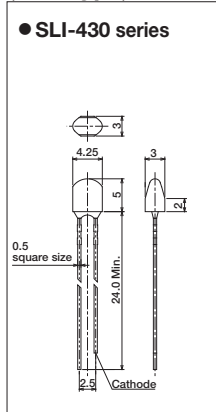
⟨ $\phi 3$ type⟩



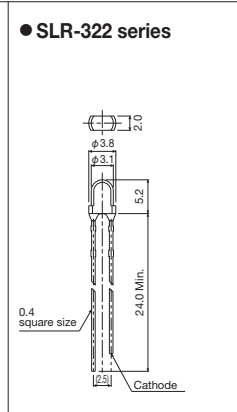
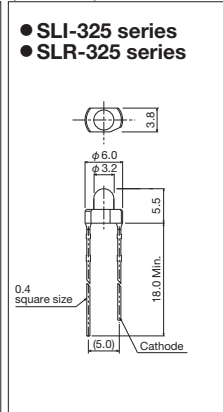
⟨ $\phi 5$ type⟩



⟨Oval type⟩



⟨Others⟩



*For further information, please refer to specification.