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Category LED Displays

Opto Devices

LED Displays

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LED Displays

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Good point of High luminous intensity LED Numeric Displays series

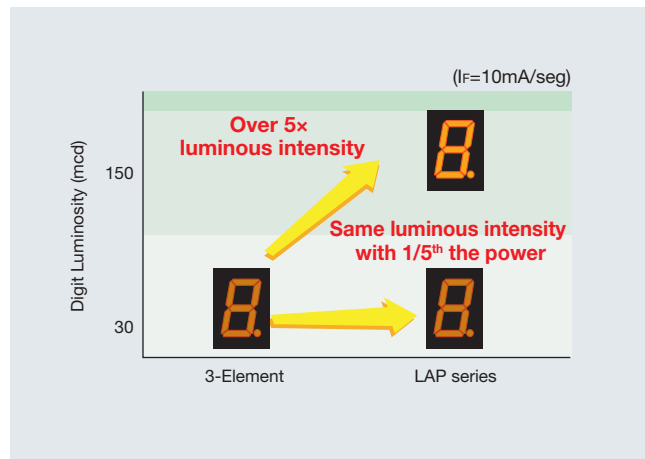
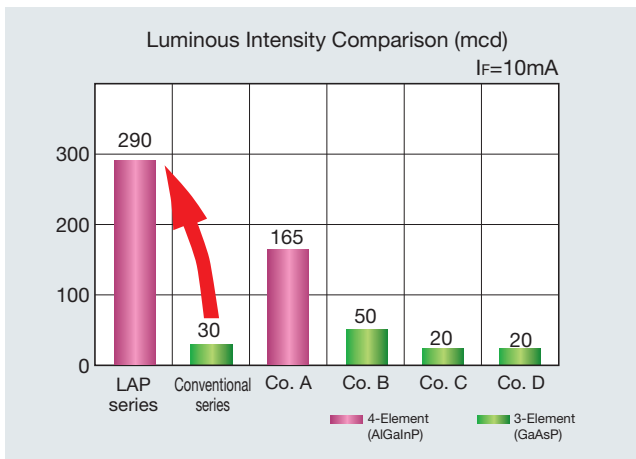
All-around type that High luminous intensity, Low Power Consumption and High Reliability

High luminous intensity

The brighter 4-element construction significantly increases luminosity compared with conventional numeric displays (orange emission ratio).

Low Power

Achieves equivalent luminous intensity with 5x less current, contributing to greater energy savings.



High luminous intensity LED Numeric Displays

High luminous intensity, low power consumption, and high reliability.

Single Digit LED Numeric Displays																		
Shape	Part No.	Emitting Color	Absolute Maximum Ratings (Ta=25°C)				Absolute Maximum Ratings		Electrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation Po (mW)	Forward Current If (mA)	Peak Forward Current Ifp* (mA)	Reverse Voltage Vr (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage Vf		Reverse Current Ir		Light Wavelength Peak Half-wave			Luminous Intensity/Digit Iv		
									Typ (V)	If (mA)	Max (µA)	Vr (V)	λp TYP (nm)	Δλ TYP (nm)	If (mA)	Min (mcd)	Typ (mcd)	If (mA)
	LAP-301VB/VL	Red	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LAP-301MB/ML	Green	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LAP-301DB/DL	Orange	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	605	20	10	56	250	10
	LAP-401VD/VN	Red	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LAP-401MD/MN	Green	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LAP-401DD/DN	Orange	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	605	20	10	56	250	10
	LAP-601VB/VL	Red	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LAP-601MB/ML	Green	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LAP-601DB	Orange	448	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	605	20	10	56	250	10





Note: *Ifp measured under duty≤1/5, Pulse width≤1ms

Two Digit LED Numeric Displays																		
Shape	Part No.	Emitting Color	Absolute Maximum Ratings (Ta=25°C)				Absolute Maximum Ratings		Electrical and Optical Characteristics (Ta=25°C)									
			Power Dissipation Po (mW)	Forward Current If (mA)	Peak Forward Current Ifp* (mA)	Reverse Voltage Vr (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage Vf		Reverse Current Ir		Light Wavelength Peak Half-wave			Luminous Intensity/Digit Iv		
									Typ (V)	If (mA)	Max (µA)	Vr (V)	λp TYP (nm)	Δλ TYP (nm)	If (mA)	Min (mcd)	Typ (mcd)	If (mA)
	LBP-602VA2/VK2	Red	896	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LBP-602MA2/MK2	Green	896	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LBP-602DA2/DK2	Orange	896	20	60	5	-25 to +75	-30 to +85	1.9	10	100	3	605	20	10	56	250	10

Note: *Ifp measured under duty≤1/5, Pulse width≤1ms




LED Numeric Displays

These single digit numeric displays are 8 to 14.6mm in height and available in a range of colors.


Single Digit LED Numeric Displays																		
Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T _a =25°C)				Absolute Maximum Ratings		Electrical and Optical Characteristics (T _a =25°C)									
			Power Dissipation P _o (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)	Forward Voltage V _F		Reverse Current I _R		Light Wavelength Peak Half-wave			Luminous Intensity/Digit I _v		
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	λ _p Typ (nm)	Δλ Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	I _F (mA)
 Character Height: 8mm External Dimensions: (7x11)	LA-301VB/VL	Red	320	15	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	3.6	10	10
	LA-301MB/ML	Green	480	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	3.6	10	10
	LA-301AB/AL	High luminous intensity Red	520	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	626	18	20	36	90	10
	LA-301EB/EL	High luminous intensity Orange	520	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	610	17	20	36	90	10
 Character Height: 10.16mm External Dimensions: (9.6x13)	LA-401VD/VN	Red	320	15	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LA-401MD/MN	Green	480	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	5.6	16	10
	LA-401AD/AN	High luminous intensity Red	520	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	626	18	20	36	90	10
	LA-401ED/EN	High luminous intensity Orange	520	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	610	17	20	36	90	10
 Character Height: 13mm External Dimensions: (12.5x17.5)	LA-501VD/VN	Red	480	20	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LA-501MD/MN	Green	480	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	5.6	16	10
 Character Height: 14.6mm External Dimensions: (12.5x19)	LA-601VB/VL	Red	480	20	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	14	10
	LA-601MB/ML	Green	480	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	9.0	22	10
	LA-601AB/AL	High luminous intensity Red	520	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	626	18	20	36	90	10
	LA-601EB/EL	High luminous intensity Orange	520	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	610	17	20	36	90	10

Note: *I_{FP} measured under duty≤1/5, Pulse width≤1ms, High luminous intensity under duty≤1/10, Pulse width≤0.1 ms

These two digit numeric displays are 10.16 to 14.3mm in height and available in a range of colors.

Two Digit LED Numeric Displays																		
Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T _a =25°C)				Absolute Maximum Ratings		Electrical and Optical Characteristics (T _a =25°C)									
			Power Dissipation P _o (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)	Forward Voltage V _F		Reverse Current I _R		Light Wavelength Peak Half-wave			Luminous Intensity/Digit I _v		
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	λ _p Typ (nm)	Δλ Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	I _F (mA)
 Character Height: 10.16mm External Dimensions: (24x18)	LB-402VD/VN	Red	640	15	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LB-402MD/MN	Green	960	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	9.0	25	10
 Character Height: 13mm External Dimensions: (25x17.5)	LB-502VD/VN	Red	960	20	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LB-502MD/MN	Green	960	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	9.0	25	10
 Character Height: 14.3mm External Dimensions: (25x19)	LB-602VA2/VK2	Red	960	20	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LB-602MA2/MK2	Green	960	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	9.0	25	10
	LB-602AA2/AK2	High luminous intensity Red	1,040	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	626	18	20	36	90	10
	LB-602EA2/EK2	High luminous intensity Orange	1,040	25	50	5	-25 to +75	-30 to +85	2.05	20	100	3	610	17	20	36	90	10


Note: *I_{FP} measured under duty≤1/5, Pulse width≤1ms, High luminous intensity under duty≤1/10, Pulse width≤0.1 ms

Three Digit LED Numeric Display																		
Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T _a =25°C)				Absolute Maximum Ratings		Electrical and Optical Characteristics (T _a =25°C)									
			Power Dissipation P _o (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)	Forward Voltage V _F		Reverse Current I _R		Light Wavelength Peak Half-wave			Luminous Intensity/Digit I _v		
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	λ _p Typ (nm)	Δλ Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	I _F (mA)
 Character Height: 14.3mm External Dimensions: (37.5x18)	LB-603VF/VP	Red	960	15	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	5.6	16	10

Note: *I_{FP} measured under duty≤1/5, Pulse width≤1ms

Surface Mount LED Numeric Displays

ROHM's LED numeric displays are compatible with automatic reflow processes.

Single Digit LED Numeric Displays																		
Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T _a =25°C)				Absolute Maximum Ratings		Electrical and Optical Characteristics (T _a =25°C)									
			Power Dissipation P _o (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)	Forward Voltage V _F		Reverse Current I _R		Light Wavelength Peak Half-wave			Luminous Intensity/Digit I _v		
									Typ (V)	I _F (mA)	Max (μA)	V _R (V)	λ _p Typ (nm)	Δλ Typ (nm)	I _F (mA)	Min (mcd)	Typ (mcd)	I _F (mA)
 Character Height: 8mm External Dimensions: (6.8x11)	LF-3011VA/VK	Red	320	15	60	5	-25 to +75	-30 to +85	2.0	10	100	3	650	40	10	3.6	10	10
	LF-3011MA/MK	Green	480	20	60	5	-25 to +75	-30 to +85	2.1	10	100	3	563	40	10	3.6	10	10

Note: *I_{FP} measured under duty≤1/5, Pulse width≤1ms