







SiC Schottky Barrier Diodes

● Quick Reference for SiC Schottky Barrier Diodes





V _{RM} (V)	I _F (A)	Leaded type				Surface Mounted type					
											
		TO-220AC	TO-220AC (TO-220ACP)	TO-220FM	TO-247 (TO-247N)	TO-263AB (LPTL)					
650	2		SCS302AH	33			SCS302AJ	13			
	4		SCS304AH	34	SCS304AM	41		SCS304AJ	14		
	6	SCS206AG SCS206AGHR	21 27	SCS306AH	35	SCS306AM	42	SCS206AJ SCS206AJHR SCS306AJ	1 7 15		
	8	SCS208AG SCS208AGHR	22 28	SCS308AH	36	SCS308AM	43	SCS208AJ SCS208AJHR SCS308AJ	2 8 16		
	10	SCS210AG SCS210AGHR	23 29	SCS310AH	37	SCS310AM	44	SCS210AJ SCS210AJHR SCS310AJ	3 9 17		
	12	SCS212AG SCS212AGHR	24 30	SCS312AH	38	SCS312AM	45	SCS212AJ SCS212AJHR SCS312AJ	4 10 18		
	15	SCS215AG SCS215AGHR	25 31	SCS315AH	39	SCS315AM	46	SCS215AE	48	SCS215AJ SCS215AJHR SCS315AJ	5 11 19
	20	SCS220AG SCS220AGHR	26 32	SCS320AH	40	SCS320AM	47	SCS220AE SCS220AE2 SCS220AE2HR	49 50 53	SCS220AJ SCS220AJHR SCS320AJ	6 12 20
	30							SCS230AE2 SCS230AE2HR	51 54		
	40							SCS240AE2 SCS240AE2HR	52 55		
1,200	5	SCS205KG SCS205KGHR	56 60								
	10	SCS210KG SCS210KGHR	57 61					SCS210KE2 SCS210KE2HR	64 68		
	15	SCS215KG SCS215KGHR	58 62								
	20	SCS220KG SCS220KGHR	59 63					SCS220KE2 SCS220KE2HR	65 69		
	30							New SCS230KE2 SCS230KE2HR	66 70		
	40							New SCS240KE2 SCS240KE2HR	67 71		

Note: Package is JEDEC code. (): ROHM Packages.

SiC Schottky Barrier Diodes

No.	Part No.	Absolute Maximum Ratings (T _J =25°C)				Electrical Characteristics (T _J =25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
		V _{RM} (V)	V _R (V)	I _F (A)	I _{FSM} (A) 10ms	V _F (V) Typ	I _F (A)	I _R (μA) Max	V _R (V)			
1	SCS206AJ	650	650	6	23	1.35	6	120	600	TO-263AB (LPTL)		—
2	SCS208AJ	650	650	8	30	1.35	8	160	600			—
3	SCS210AJ	650	650	10	38	1.35	10	200	600			—
4	SCS212AJ	650	650	12	43	1.35	12	240	600			—
5	SCS215AJ	650	650	15	52	1.35	15	300	600			—
6	SCS220AJ	650	650	20	68	1.35	20	400	600			—
7	SCS206AJHR	650	650	6	23	1.35	6	120	600			YES
8	SCS208AJHR	650	650	8	30	1.35	8	160	600			YES
9	SCS210AJHR	650	650	10	38	1.35	10	200	600			YES
10	SCS212AJHR	650	650	12	43	1.35	12	240	600			YES
11	SCS215AJHR	650	650	15	52	1.35	15	300	600			YES
12	SCS220AJHR	650	650	20	68	1.35	20	400	600			YES
13	SCS302AJ	650	650	2.15	19	1.35	2.15	10.8	650			—
14	SCS304AJ	650	650	4	27	1.35	4	20	650			—
15	SCS306AJ	650	650	6	47	1.35	6	30	650			—
16	SCS308AJ	650	650	8	67	1.35	8	40	650			—
17	SCS310AJ	650	650	10	82	1.35	10	50	650			—
18	SCS312AJ	650	650	12	96	1.35	12	60	650			—
19	SCS315AJ	650	650	15	112	1.35	15	75	650			—
20	SCS320AJ	650	650	20	123	1.35	20	100	650			—

Note: Package is JEDEC code. (): ROHM Packages.

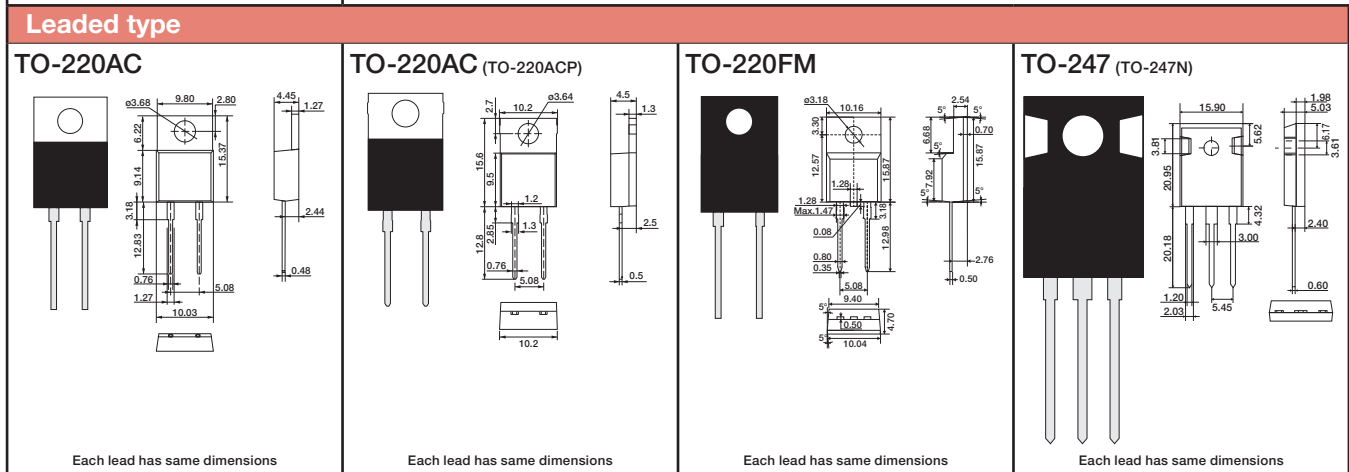
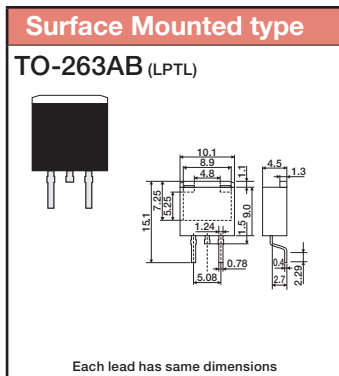
SiC Schottky Barrier Diodes												
No.	Part No.	Absolute Maximum Ratings (T _J =25°C)				Electrical Characteristics (T _J =25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
		V _{RM} (V)	V _R (V)	I _F (A)	I _{FSM} (A) 10ms	V _F (V) Typ	I _F (A)	I _R (μA) Max	V _R (V)			
21	SCS206AG	650	650	6	23	1.35	6	120	600	TO-220AC		—
22	SCS208AG	650	650	8	30	1.35	8	160	600			—
23	SCS210AG	650	650	10	38	1.35	10	200	600			—
24	SCS212AG	650	650	12	43	1.35	12	240	600			—
25	SCS215AG	650	650	15	52	1.35	15	300	600			—
26	SCS220AG	650	650	20	68	1.35	20	400	600			—
27	SCS206AGHR	650	650	6	23	1.35	6	120	600			YES
28	SCS208AGHR	650	650	8	30	1.35	8	160	600			YES
29	SCS210AGHR	650	650	10	38	1.35	10	200	600			YES
30	SCS212AGHR	650	650	12	43	1.35	12	240	600			YES
31	SCS215AGHR	650	650	15	52	1.35	15	300	600			YES
32	SCS220AGHR	650	650	20	68	1.35	20	400	600			YES
33	SCS302AH	650	650	2.15	19	1.35	2	10.8	650	TO-220AC (TO-220ACP)	—	—
34	SCS304AH	650	650	4	27	1.35	4	20	650			—
35	SCS306AH	650	650	6	47	1.35	6	30	650			—
36	SCS308AH	650	650	8	67	1.35	8	40	650			—
37	SCS310AH	650	650	10	82	1.35	10	50	650			—
38	SCS312AH	650	650	12	96	1.35	12	60	650			—
39	SCS315AH	650	650	15	112	1.35	15	75	650			—
40	SCS320AH	650	650	20	123	1.35	20	100	650			—
41	SCS304AM	650	650	4	27	1.35	4	20	650	TO-220FM		—
42	SCS306AM	650	650	6	47	1.35	6	30	650			—
43	SCS308AM	650	650	8	67	1.35	8	40	650			—
44	SCS310AM	650	650	10	82	1.35	10	50	650			—
45	SCS312AM	650	650	12	96	1.35	12	60	650			—
46	SCS315AM	650	650	15	112	1.35	15	75	650			—
47	SCS320AM	650	650	20	123	1.35	20	100	650			—
48	SCS215AE	650	650	15/30*1	52	1.35	15	300	600			TO-247 (TO-247N)
49	SCS220AE	650	650	20	67	1.35	20	400	600	—		
50	SCS220AE2	650	650	10/20*1	38/76*1	1.35	10	200	600	—		
51	SCS230AE2	650	650	15/30*1	52/104*1	1.35	15	300	600	—		
52	SCS240AE2	650	650	20/40*1	67/130*1	1.35	20	400	600	—		
53	SCS220AE2HR	650	650	10/20*1	38/76*1	1.35	10	200	600	YES		
54	SCS230AE2HR	650	650	15/30*1	52/100*1	1.35	15	300	600	YES		
55	SCS240AE2HR	650	650	20/40*1	67/130*1	1.35	20	400	600	YES		
56	SCS205KG	1,200	1,200	5	23	1.4	5	100	1,200	TO-220AC		—
57	SCS210KG	1,200	1,200	10	42	1.4	10	200	1,200			—
58	SCS215KG	1,200	1,200	15	62	1.4	15	300	1,200			—
59	SCS220KG	1,200	1,200	20	79	1.4	20	400	1,200			—
60	SCS205KGHR	1,200	1,200	5	23	1.4	5	100	1,200			YES
61	SCS210KGHR	1,200	1,200	10	42	1.4	10	200	1,200			YES
62	SCS215KGHR	1,200	1,200	15	62	1.4	15	300	1,200			YES
63	SCS220KGHR	1,200	1,200	20	79	1.4	20	400	1,200			YES
64	SCS210KE2	1,200	1,200	5/10*1	22/45*1	1.4	5	100	1,200	TO-247 (TO-247N)		—
65	SCS220KE2	1,200	1,200	10/20*1	42/84*1	1.4	10	200	1,200			—
66	SCS230KE2	1,200	1,200	15/30*1	62/120*1	1.4	15	300	1,200			—
67	SCS240KE2	1,200	1,200	20/40*1	78/150*1	1.4	20	400	1,200			—
68	SCS210KE2HR	1,200	1,200	5/10*1	22/45*1	1.4	5	100	1,200			YES
69	SCS220KE2HR	1,200	1,200	10/20*1	42/84*1	1.4	10	200	1,200			YES
70	New SCS230KE2HR	1,200	1,200	15/30*1	62/120*1	1.4	15	300	1,200			YES
71	New SCS240KE2HR	1,200	1,200	20/40*1	78/150*1	1.4	20	400	1,200			YES

Note: Package is JEDEC code. (): ROHM Packages.

*1 (Per Leg/Device)

SiC Schottky Barrier Diodes

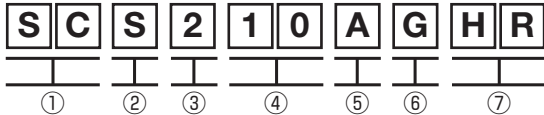
●Dimensions (Unit: mm)



Note: Package is JEDEC code. (): ROHM Packages.

●Part No. Explanation

●SiC Schottky Barrier Diode Part No. Explanation



- ① SiC Discrete Device
- ② Schottky Barrier Diode
- ③ Generation
- ④ Rated Current[A]
Example 05 → 5A
10 → 10A

- ⑤ Rated Voltage
Example A → 650V
K → 1,200V
- ⑥ Package
Example J → TO-263AB (LPTL)
G → TO-220AC
H → TO-220AC (TO-220ACP)
M → TO-220FM
E → TO-247 (TO-247N)
E2 → TO-247 (Dual Chip)
- ⑦ Automotive Grade

●Packaging type

Package	Code	Packaging Style	Basic Ordering Unit (pcs)
TO-263AB (LPTL)	TLL	Embossed Tape	1,000
TO-220AC	C	Tube	50
TO-220AC (TO-220ACP)	C9	Tube	50
TO-220FM	C	Tube	50
TO-247 (TO-247N)	C11	Tube	30

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