

By Category PDF

Category SiC Schottky Barrier Diodes

Power Devices

SiC Schottky Barrier Diodes

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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-220ACGE)		TO-220AC (TO-220ACG)		TO-220FM (TO-220-2LGE)		TO-247 (TO-247N)		TO-263AB (LPTL)	
650	4	SCS304AG	20			SCS304AM	27			SCS304AJ	13
	6	SCS306AG	21	SCS206AG	40	SCS306AM	28			SCS206AJ SCS206AJHR SCS306AJ	1 7 14
	8	SCS308AG	22	SCS208AG	41	SCS308AM	29			SCS208AJ SCS208AJHR SCS308AJ	2 8 15
	10	SCS310AG	23	SCS210AG	42	SCS310AM	30			SCS210AJ SCS210AJHR SCS310AJ	3 9 16
	12	SCS312AG	24	SCS212AG	43	SCS312AM	31			SCS212AJ SCS212AJHR SCS312AJ	4 10 17
	15	SCS315AG	25	SCS215AG	44	SCS315AM	32			SCS215AJ SCS215AJHR SCS315AJ	5 11 18
	20	SCS320AG	26	SCS220AG	45	SCS320AM	33	SCS220AE2 SCS220AE2HR	34 37	SCS220AJ SCS220AJHR SCS320AJ	6 12 19
	30							SCS230AE2 SCS230AE2HR	35 38		
	40							SCS240AE2 SCS240AE2HR	36 39		
1,200	5			SCS205KG	54						
	10			SCS210KG	55			SCS210KE2 SCS210KE2HR	46 50		
	15			SCS215KG	56						
	20			SCS220KG	57			SCS220KE2 SCS220KE2HR	47 51		
	30							SCS230KE2 SCS230KE2HR	48 52		
	40							SCS240KE2 SCS240KE2HR	49 53		

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

SiC Schottky Barrier Diodes

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	SCS304AJ	650	650	4	27	1.35	4	20	650			—
14	SCS306AJ	650	650	6	47	1.35	6	30	650			—
15	SCS308AJ	650	650	8	67	1.35	8	40	650			—
16	SCS310AJ	650	650	10	82	1.35	10	50	650			—
17	SCS312AJ	650	650	12	96	1.35	12	60	650			—
18	SCS315AJ	650	650	15	112	1.35	15	75	650			—
19	SCS320AJ	650	650	20	123	1.35	20	100	650			—
20	SCS304AG	650	650	4	27	1.35	4	20	650	TO-220AC (TO-220ACGE)		—
21	SCS306AG	650	650	6	47	1.35	6	30	650			—
22	SCS308AG	650	650	8	67	1.35	8	40	650			—
23	SCS310AG	650	650	10	82	1.35	10	50	650			—
24	SCS312AG	650	650	12	96	1.35	12	60	650			—
25	SCS315AG	650	650	15	112	1.35	15	75	650			—
26	SCS320AG	650	650	20	123	1.35	20	100	650			—
27	SCS304AM	650	650	4	27	1.35	4	20	650	TO-220FM (TO-220FM-2LGE)		—
28	SCS306AM	650	650	6	47	1.35	6	30	650			—
29	SCS308AM	650	650	8	67	1.35	8	40	650			—
30	SCS310AM	650	650	10	82	1.35	10	50	650			—
31	SCS312AM	650	650	12	96	1.35	12	60	650			—
32	SCS315AM	650	650	15	112	1.35	15	75	650			—
33	SCS320AM	650	650	20	123	1.35	20	100	650			—
34	SCS220AE2	650	650	10/20*1	38/76*1	1.35	10	200	600	TO-247 (TO-247N)		—
35	SCS230AE2	650	650	15/30*1	52/104*1	1.35	15	300	600			—
36	SCS240AE2	650	650	20/40*1	67/130*1	1.35	20	400	600			—
37	SCS220AE2HR	650	650	10/20*1	38/76*1	1.35	10	200	600			YES
38	SCS230AE2HR	650	650	15/30*1	52/100*1	1.35	15	300	600			YES
39	SCS240AE2HR	650	650	20/40*1	67/130*1	1.35	20	400	600	TO-220AC (TO-220ACG)		YES
40	SCS206AG	650	650	6	23	1.35	6	120	600			—
41	SCS208AG	650	650	8	30	1.35	8	160	600			—
42	SCS210AG	650	650	10	38	1.35	10	200	600			—
43	SCS212AG	650	650	12	43	1.35	12	240	600			—
44	SCS215AG	650	650	15	52	1.35	15	300	600			—
45	SCS220AG	650	650	20	68	1.35	20	400	600	TO-247 (TO-247N)		—
46	SCS210KE2	1,200	1,200	5/10*1	22/45*1	1.4	5	100	1,200			—
47	SCS220KE2	1,200	1,200	10/20*1	42/84*1	1.4	10	200	1,200			—
48	SCS230KE2	1,200	1,200	15/30*1	62/120*1	1.4	15	300	1,200			—
49	SCS240KE2	1,200	1,200	20/40*1	78/150*1	1.4	20	400	1,200			—
50	SCS210KE2HR	1,200	1,200	5/10*1	22/45*1	1.4	5	100	1,200			YES
51	SCS220KE2HR	1,200	1,200	10/20*1	42/84*1	1.4	10	200	1,200			YES
52	SCS230KE2HR	1,200	1,200	15/30*1	62/120*1	1.4	15	300	1,200			YES
53	SCS240KE2HR	1,200	1,200	20/40*1	78/150*1	1.4	20	400	1,200	TO-220AC (TO-220ACG)		YES
54	SCS205KG	1,200	1,200	5	23	1.4	5	100	1,200			—
55	SCS210KG	1,200	1,200	10	42	1.4	10	200	1,200			—
56	SCS215KG	1,200	1,200	15	62	1.4	15	300	1,200			—
57	SCS220KG	1,200	1,200	20	79	1.4	20	400	1,200			—

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

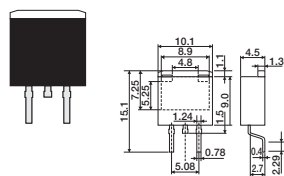
*1 (Per Leg/Device)

SiC Schottky Barrier Diodes

●Dimensions (Unit: mm)

Surface Mounted type

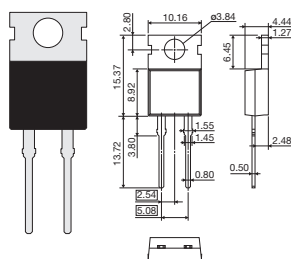
TO-263AB (LPTL)



Each lead has same dimensions

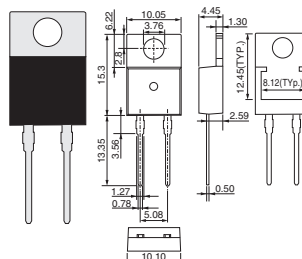
Leaded type

TO-220AC (TO-220ACGE)



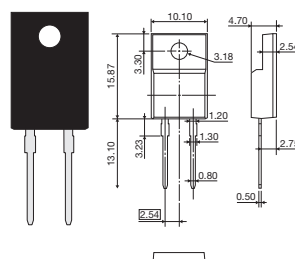
Each lead has same dimensions

TO-220AC (TO-220ACG)



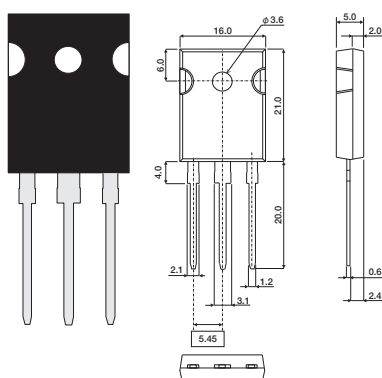
Each lead has same dimensions

TO-220FM (TO-220FM-2LGE)



Each lead has same dimensions

TO-247 (TO-247N)



Each lead has same dimensions

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

●Part No. Explanation

●SiC Schottky Barrier Diode Part No. Explanation

S	C	S	2	1	0	A	J	H	R
①	②	③	④	⑤	⑥	⑦			

- ① SiC Discrete Device
- ② S → 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)
E → TO-247 (TO-247N)
E2 → TO-247 (Dual Chip)
G → TO-220AC (TO-220ACGE)
TO-220AC (TO-220ACG)
- ⑦ Automotive Grade

●Packaging type

Package	Code	Packaging Style	Basic Ordering Unit (pcs)
TO-263AB (LPTL)	TLL	Embossed Tape	1,000
TO-220AC (TO-220ACGE)	C16	Tube	50
TO-220AC (TO-220ACG)	C17	Tube	50
TO-220FM (TO-220FM-2LGE)	C7G	Tube	50
TO-247 (TO-247N)	C11	Tube	30

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