

## SiC肖特基势垒二极管






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P.128

 点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。








## SiC肖特基势垒二极管

## ●SiC肖特基势垒二极管一览表

V <sub>RM</sub> (V)	I <sub>F</sub> (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	SCS220AJ SCS220AJHR SCS320AJ	6 12 19
	30							SCS230AE2 SCS230AE2HR	34 37
	40							SCS240AE2 SCS240AE2HR	35 38 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

注：封装采用JEDEC表示。( )内表示ROHM封装。

## SiC肖特基势垒二极管

SiC肖特基势垒二极管												
No.	Part No.	Absolute Maximum Ratings (T <sub>J</sub> =25°C)				Electrical Characteristics (T <sub>J</sub> =25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
		V <sub>RM</sub> (V)	V <sub>R</sub> (V)	I <sub>F</sub> (A)	I <sub>FSM</sub> (A) 10ms	V <sub>F</sub> (V) Typ	I <sub>F</sub> (A)	I <sub>R</sub> (μA) Max	V <sub>R</sub> (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			YES
40	SCS206AG	650	650	6	23	1.35	6	120	600	TO-220AC (TO-220ACG)		—
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			—
46	SCS210KE2	1,200	1,200	5/10*1	22/45*1	1.4	5	100	1,200	TO-247 (TO-247N)		—
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			YES
54	SCS205KG	1,200	1,200	5	23	1.4	5	100	1,200	TO-220AC (TO-220ACG)		—
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			—

注：封装采用JEDEC表示。( )内表示ROHM封装。

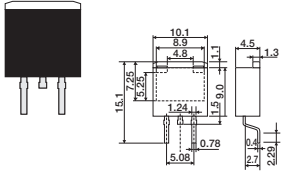
\*1 (引脚/封装)

## SiC肖特基势垒二极管

### ●外形尺寸图 (单位: mm)

#### 表面贴装型

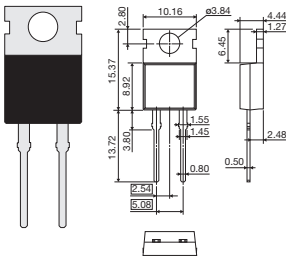
##### TO-263AB (LPTL)



Each lead has same dimensions

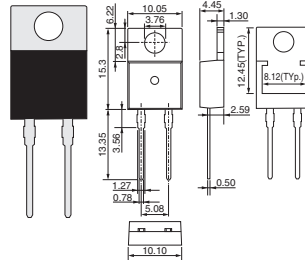
#### 引脚插入型

##### TO-220AC (TO-220ACGE)



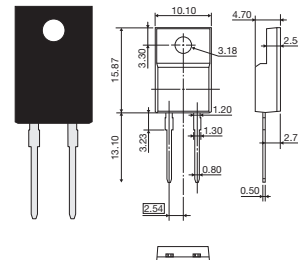
Each lead has same dimensions

##### TO-220AC (TO-220ACG)



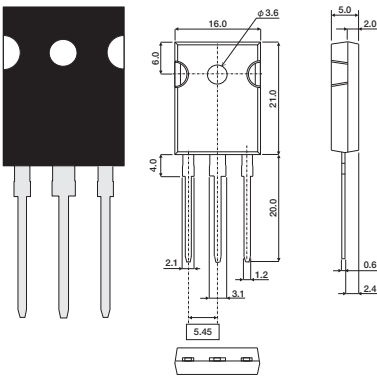
Each lead has same dimensions

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



Each lead has same dimensions

##### TO-247 (TO-247N)

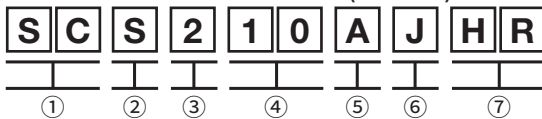


Each lead has same dimensions

注: 封装采用JEDEC表示。( )内表示ROHM封装。

### ●品名构成说明

●关于SiC肖特基势垒二极管的品名(基本型号)



- ① SiC分立元器件
- ② S→肖特基势垒二极管
- ③ 世代
- ④ 电流[A]  
例 05 → 5A  
10 → 10A

- ⑤ 电压  
例 A → 650V  
K → 1,200V
- ⑥ 封装  
例 J → TO-263AB (LPTL)  
E → TO-247 (TO-247N)  
E2 → TO-247 (Dual Chip)  
G → TO-220AC (TO-220ACGE)  
TO-220AC (TO-220ACG)
- ⑦ 表示支持车载

### ●封装类型

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

注: 封装采用JEDEC表示。( )内表示ROHM封装。