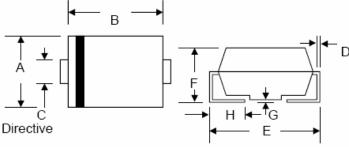


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Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 30A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O
- Green Products in Compliance with the RoHS Directive
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Data

- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)

SMB/DO-214AA								
Dim	Min	Max	Min	Max				
Α	3.30	3.94	0.130	0.155				
В	4.06	4.70	0.160	0.185				
С	1.91	2.11	0.075	0.083				
D	0.15	0.31	0.006	0.012				
E	5.08	5.59	0.200	0.220				
F	2.13	2.44	0.084	0.096				
G	0.05	0.20	0.002	0.008				
Н	0.76	1.27	0.030	0.050				
	In mm		In inch					

Marking Diagram:



Where XXXXX is YYWWL

SK12 = Part Name
 YY = Year
 WW = Week
 L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping			
SK12-G-SK110-G	SMB (Pb-Free)	3000pcs / reel			

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

[•] Weigi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

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SK12-G-SK110-G 1.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	SK12 -G	SK1 3-G	SK1 4-G	SK1 5-G	sK1 6-G	sK1 8₋G	SK1 9-G	SK11 0-G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	80	90	100	٧
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	64	71	٧
Average Rectified Output Current @T _L = 75°C	lo	1.0							Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30					А			
Forward Voltage @I _F = 1.0A	VFM	0.55 0.70 0.85					٧			
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	lгм	0.5 20					mA			
Typical Thermal Resistance Junction to Ambient (Note 1)	RθJA	95					K/W			
Operating Temperature Range	Tj	-65 to +125					°C			
Storage Temperature Range	Тѕтс	-65 to +150					°C			

Note: 1. Mounted on P.C. Board with 5.0mm2 copper pad areas

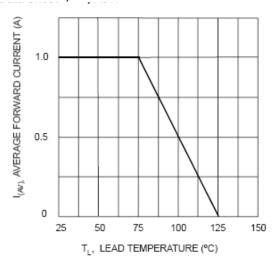
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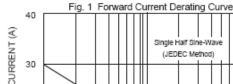
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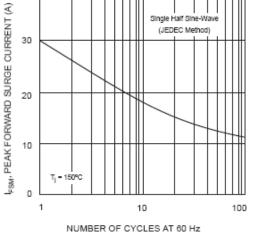
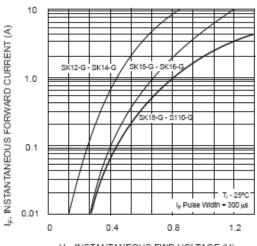


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



V_F, INSTANTANEOUS FWD VOLTAGE (V) Fig. 2 Typ. Forward Characteristics

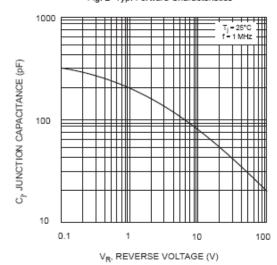
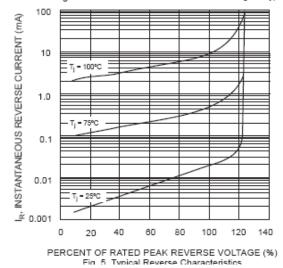
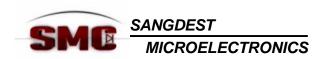


Fig. 4 Typical Junction Capacitance



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