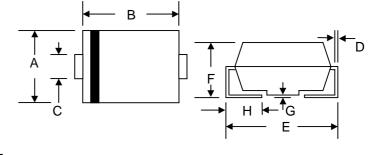




2.0A SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 50A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: SMB/DO-214AA, 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.)
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

SMB/DO-214AA					
Dim	Min Max				
Α	3.30	3.94			
В	4.06 4.70				
С	1.91 2.11				
D	0.152	0.305			
E	5.08	5.59			
F	2.13	2.44			
G	0.051	0.203			
н	0.76	1.27			
All Dimensions in mm					

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

Characteristic	Symbol	SK22	SK23	SK24	SK25	SK26	SK28	SK29	S210	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	50	60	80	90	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	64	71	V
Average Rectified Output Current $@T_L = 105^{\circ}C$	ю	2.0					А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50					A			
Forward Voltage $@I_F = 2.0A$	Vfm	0.50 0.70 0.85					V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	0.5 20					mA			
Typical Thermal Resistance (Note 1)	RθJL RθJA	17 75					°C/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 8.0mm² copper pad area.

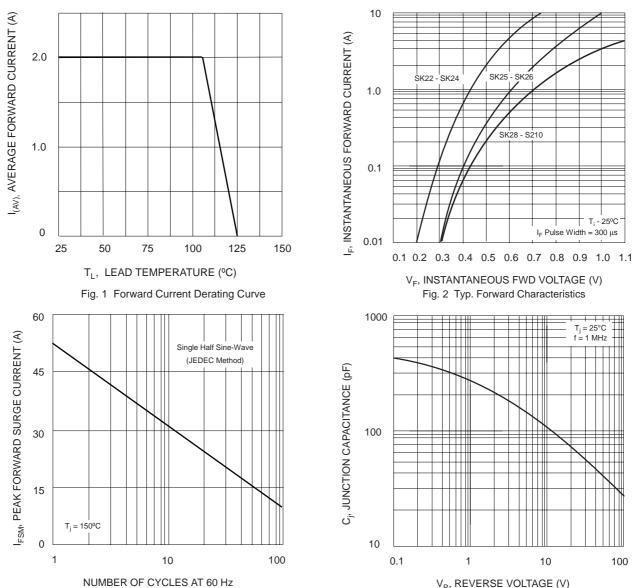
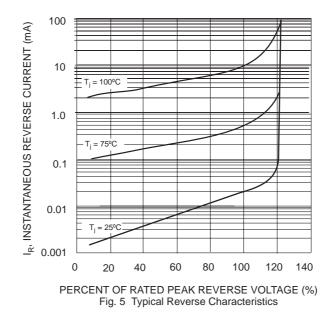


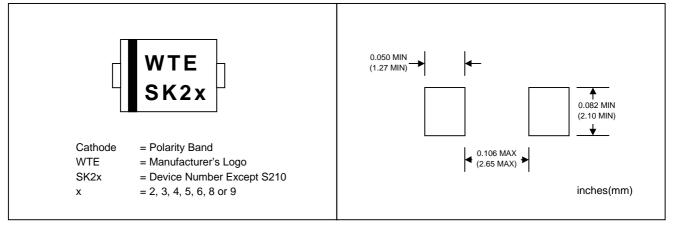
Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

V_R, REVERSE VOLTAGE (V) Fig. 4 Typical Junction Capacitance

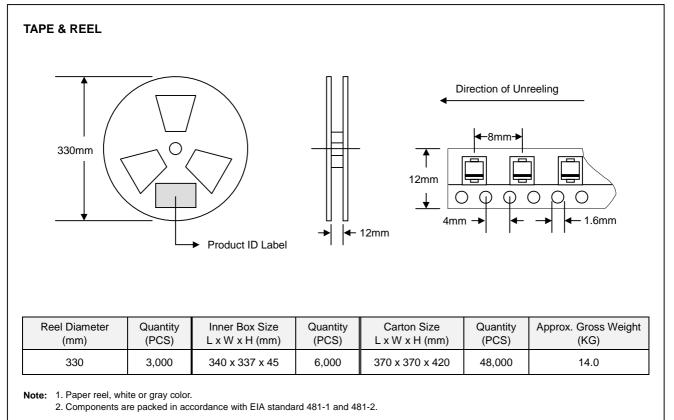


MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity				
SK22-T3	SMB	3000/Tape & Reel				
SK23-T3	SMB	3000/Tape & Reel				
SK24-T3	SMB	3000/Tape & Reel				
SK25-T3	SMB	3000/Tape & Reel				
SK26-T3	SMB	3000/Tape & Reel				
SK28-T3	SMB	3000/Tape & Reel				
SK29-T3	SMB	3000/Tape & Reel				
S210-T3	SMB	3000/Tape & Reel				

1. Shipping quantity given is for minimum packing quantity only. For minimum

order quantity, please consult the Sales Department. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SK22-T3-LF. 2.

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