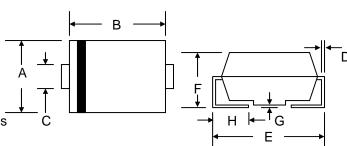


2.0A SURFACE MOUNT SCHOTTKY BARRIER DIODE



Features

- Low Forward Voltage
- Epitaxial Construction with Oxide Passivation
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 50A Peak
- Low Power Loss
- Fast Switching
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes



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				
C	1.91	2.11				
D	0.152	0.305				
Е	5.08	5.59				
F	2.13	2.44				
G	0.051	0.203				
Н	0.76	1.27				
All Dimensions in mm						

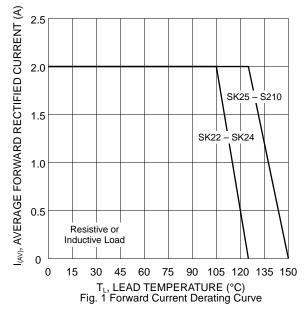
Maximum Ratings @T_A=25°C unless otherwise specified

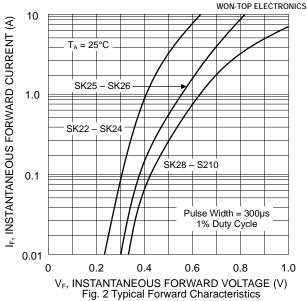
Characteristic	Symbol	SK22	SK23	SK24	SK25	SK26	SK28	SK29	S210	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	80	90	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	63	70	V
Average Rectified Output Current (Note 1)	lo	2.0							Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	50						А		
Forward Voltage @I _F = 2.0A	VFM	0.50 0.70 0.85					V			
	IRM	0.5 10						mA		
Typical Junction Capacitance (Note 2)	Cı	150 100					pF			
Thermal Resistance, Junction to Ambient (Note 1) Thermal Resistance, Junction to Lead (Note 1)	R JA R JL	80 24						°C/W		
Operating Temperature Range	TJ	-55 to +125 -55 to +150				°C				
Storage Temperature Range	Тѕтс	-55 to +150						°C		

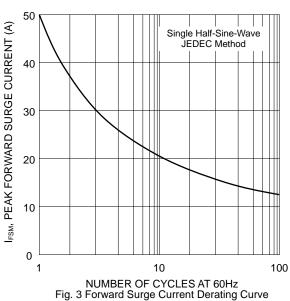
Note: 1. Mounted on FR-4 PCB with 8.0 x 8.0mm copper pads.

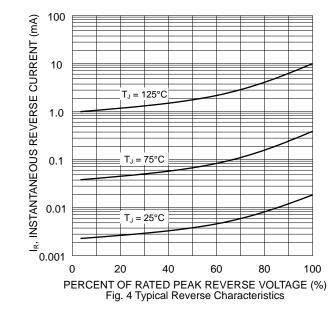
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.











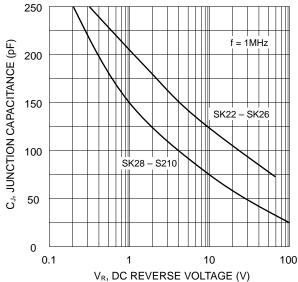
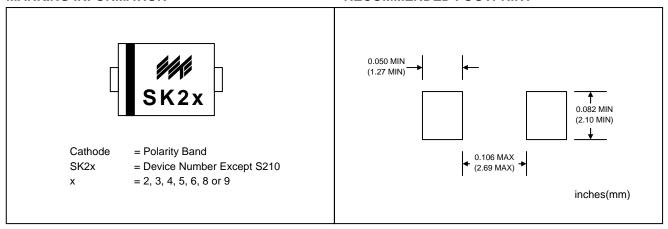


Fig. 5 Typical Junction Capacitance



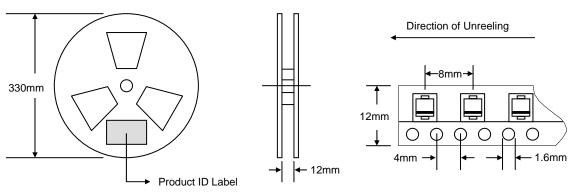
MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION





Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	3,000	340 x 337 x 45	6,000	370 x 370 x 420	48,000	14.0

Note: 1. Paper reel, white or gray color.
2. Components are packed in accordance with EIA standard 481-1 and 481-2.



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			

- 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.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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