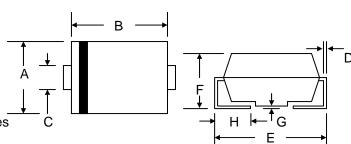


5.0A HIGH VOLTAGE SURFACE MOUNT SCHOTTKY BARRIER DIODE



Features

- Low Forward Voltage
- Epitaxial Construction with Oxide Passivation
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 125A 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: Device Code, See Page 3
- 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		
Е	5.08	5.59		
F	2.13	2.44		
G	0.051	0.203		
Н	0.76	1.27		
All Dimensions in mm				

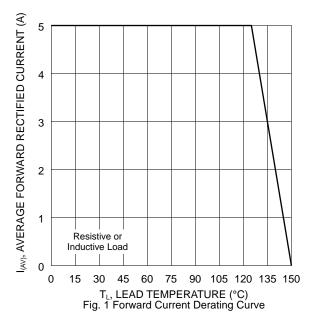
Maximum Ratings @T_A=25°C unless otherwise specified

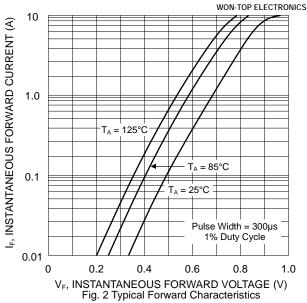
Characteristic	Symbol	SR5150	SR5200	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	150	200	V
RMS Reverse Voltage	VR(RMS)	105	140	V
Average Rectified Output Current (Note 1)	lo	5.0		Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	125		А
Forward Voltage @I _F = 5.0A	VFM	0	.9	V
	IRM	_	2 0	mA
Typical Junction Capacitance (Note 2)	Сл	120		pF
Thermal Resistance, Junction to Ambient (Note 1) Thermal Resistance, Junction to Lead (Note 1)	R JA R JL	70 18		°C/W
Operating and Storage Temperature Range	TJ, TSTG	-55 to	+150	°C

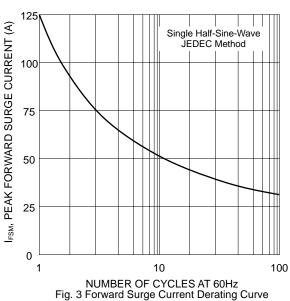
Note: 1. Mounted on FR-4 PCB with 8.0 x 8.0mm copper pads.

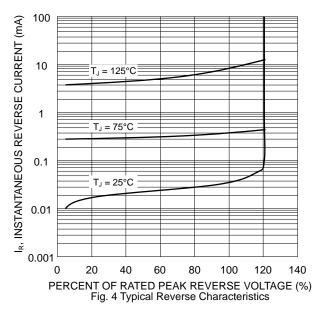
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.











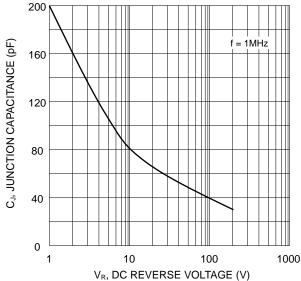
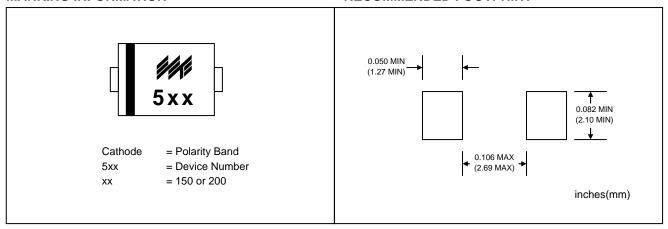


Fig. 5 Typical Junction Capacitance



MARKING INFORMATION

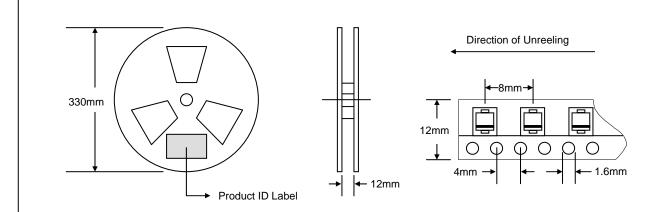
RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



TAPE & REEL



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
SR5150-T3	SMB	3000/Tape & Reel
SR5200-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" 2. suffix to part number above. For example, SR5150-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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