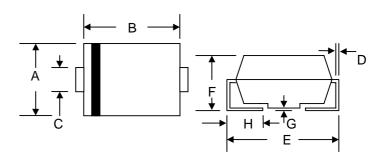
5.0A SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 175A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

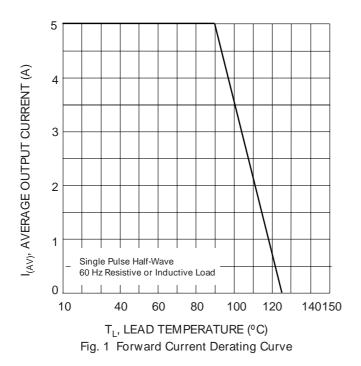
- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

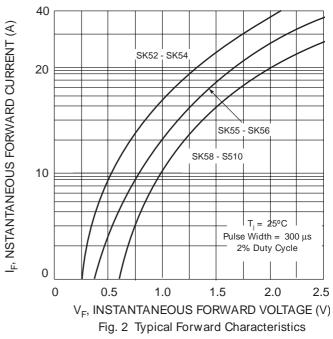
SMC/DO-214AB						
Dim	Min	Max				
Α	5.59	6.22				
В	6.60	7.11				
С	2.75	3.25				
D	0.152	0.305				
E	7.75	8.13				
F	2.00	2.62				
G	0.051	0.203				
Н	0.76	1.27				
All Dimensions in mm						

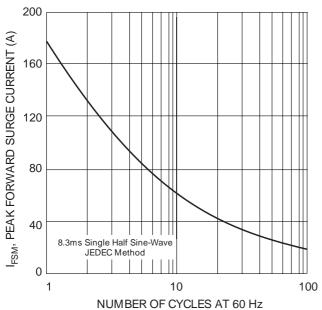
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

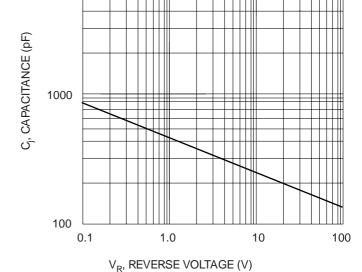
Characteristic	Symbol	SK52	SK53	SK54	SK55	SK56	SK58	SK59	S510	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	80	90	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	64	71	V
Average Rectified Output Current @T _L = 90°C	lo	5.0						Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	175					А			
Forward Voltage @I _F = 5.0A	VFM	0.50 0.75 0.85					V			
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	IRM	0.5 20						mA		
Typical Thermal Resistance (Note 1)	RθJL RθJA	14 50						°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 14mm² copper pad area.









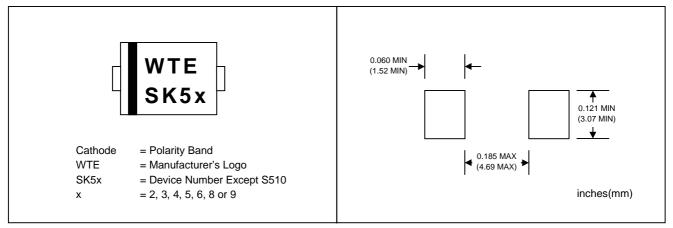
2000

Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

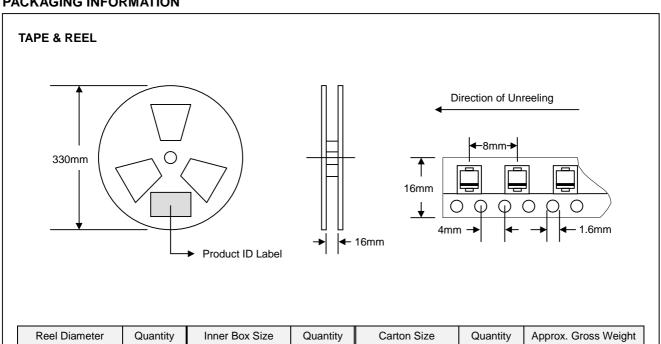
Fig. 4 Typical Junction Capacitance

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	19.0

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			
SK52-T3	SMC	3000/Tape & Reel			
SK53-T3	SMC	3000/Tape & Reel			
SK54-T3	SMC	3000/Tape & Reel			
SK55-T3	SMC	3000/Tape & Reel			
SK56-T3	SMC	3000/Tape & Reel			
SK58-T3	SMC	3000/Tape & Reel			
SK59-T3	SMC	3000/Tape & Reel			
S510-T3	SMC	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, SK52-T3-LF. 2.

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