

SINLOON®
POWER SEMICONDUCTOR

SK32 ~ S310



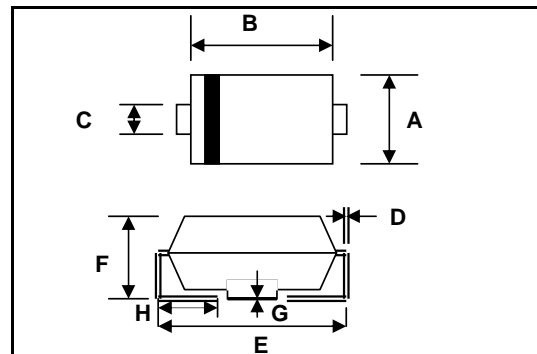
3.0A Surface Mount Schottky Barrier Diode

FEATURE

- ◆ Schottky Barrier Chip
- ◆ Ideally Suited for Automatic Assembly
- ◆ Low power loss, High Efficiency
- ◆ Surge Overload Rating to 100A Peak
- ◆ For Use in low voltahg application
- ◆ Guard ring die construction
- ◆ Plastic Case Meterial 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 3.



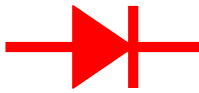
SMC/DO-214AB		
Dim.	Min.	Max.
A	5.59	6.22
B	6.60	7.11
C	2.75	3.25
D	0.152	0.305
E	7.75	8.13
F	2.00	2.62
G	0.051	0.203
H	0.76	1.27
All Dimensions in mm		

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MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS @TA = 25°C unless otherwise specified

Characteristic	Symbol	SK32	SK33	SK34	SK35	SK36	SK38	SK39	S310	Unit
Peak Repetitive Reverse Voltage	VRRM									
Working Peak Reverse Voltage	VRWM	20	30	40	50	60	80	90	100	V
DC Blocking Voltage	VR									
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	64	71	V
Average Rectified Outpot Current @TL=75°C	Io	3.0								A
Non-Repetitive Peak Forward Sutge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100								A
Forward Voltage @IF=1.0A	VFM	0.50		0.70		0.85			V	
Peak Reverse Current @TA=25°C	IRM	0.5								uA
At Rated DC Blocking Voltage @TA=100°C		20								
Typical Thermal Resistance (Note 1)	RθJL	17								°C/W
	RθJA	55								
Operating Temperature Range	Tj	-65 to +125								°C
Storage Temperature Range	TSTG	-65 to +150								°C

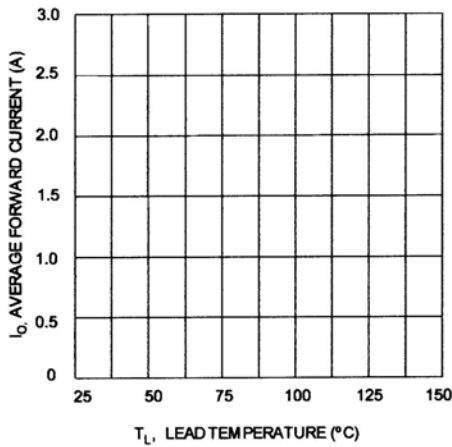
Note: 1). Mounted on P.C. Board with 14mm² copper pad area.



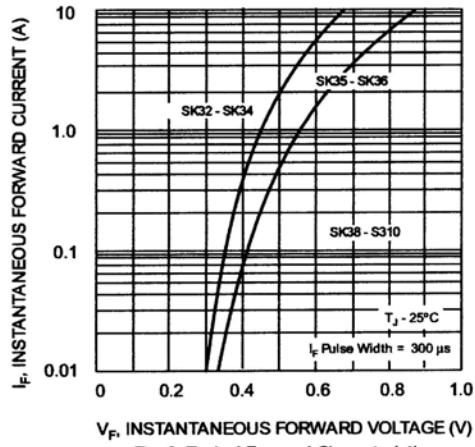
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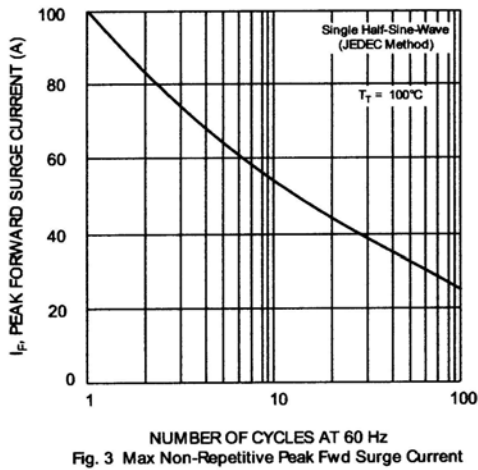
3.0A Surface Mount Schottky Barrier diode



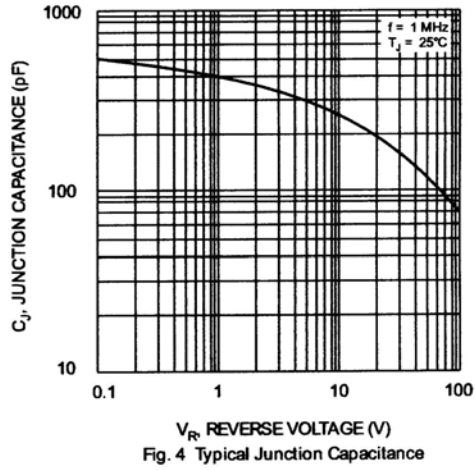
T_L LEAD TEMPERATURE (°C)
Fig. 1 Forward Current Derating Curve



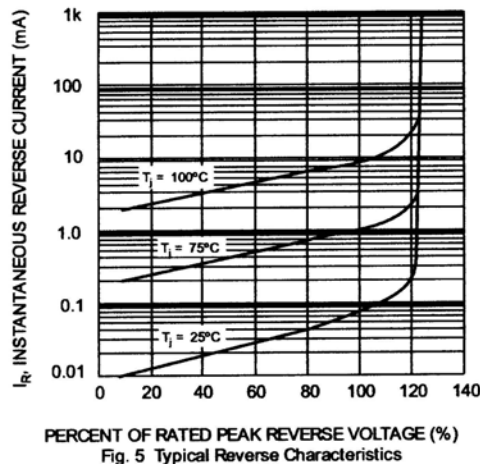
V_F INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics



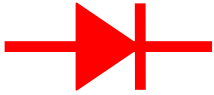
NUMBER OF CYCLES AT 60 Hz
Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



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



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 5 Typical Reverse Characteristics



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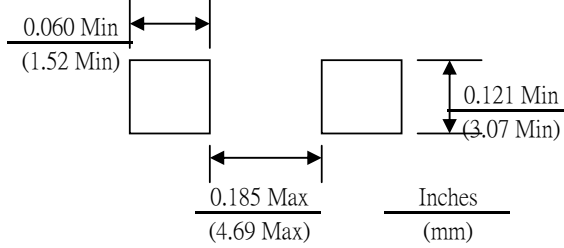
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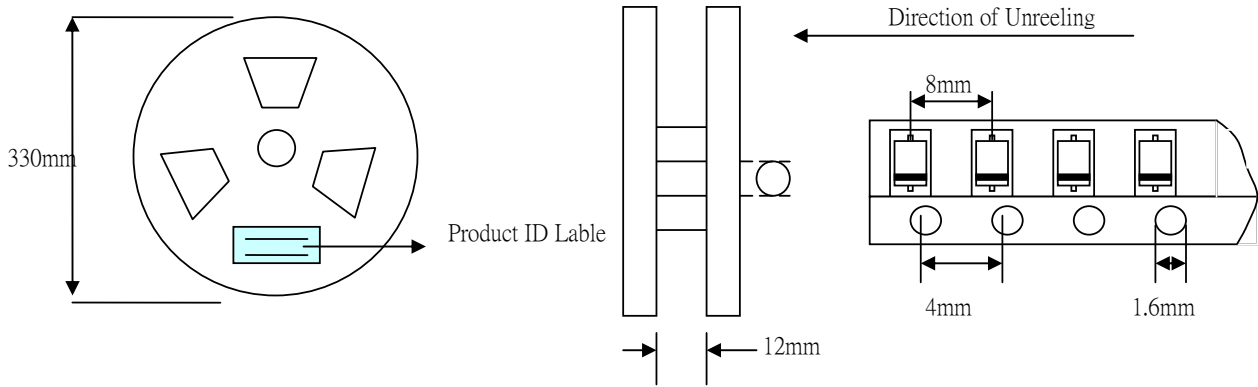
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MARKING INFORMATION

RECOMMENDED FOOTPRINT

 <p>Cathode = Polarity Band WTE = Manufacture Logo SK3x = Device Number Except S310 X = 2,3,4,5,6,8, or 9.</p>	 <p>0.060 Min (1.52 Min)</p> <p>0.121 Min (3.07 Min)</p> <p>0.185 Max (4.69 Max)</p> <p>Inches (mm)</p>
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MARKING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner box Size LxWxH (mm)	Quantity (PCS)	Carton Size LxWxH (mm)	Quantity (PCS)	Approx Gross Weight (KG)
330	3000	340x337x45	6000	370x370x420	48000	19.0

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- 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
SK32-T3	SMC	3000/Tape & Reel
SK33-T3	SMC	3000/Tape & Reel
SK34-T3	SMC	3000/Tape & Reel
SK35-T3	SMC	3000/Tape & Reel
SK36-T3	SMC	3000/Tape & Reel
SK38-T3	SMC	3000/Tape & Reel
SK39-T3	SMC	3000/Tape & Reel
S310-T3	SMC	3000/Tape & Reel

- 1). Shipping quantity given in minimum packing quantity only, for minimum order quantity, please consult the Sales Department.
2). To order RoHS /Lead Free version (with Lead Free finish), add "LF" suffix to part number above, for example, SK32-T3-LF.