

SINLOON®

蕭特基二極管

SS32 - SS310 (20V~100V)

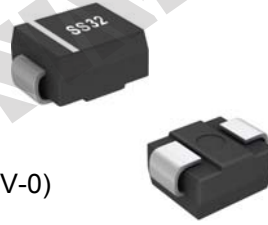
Case: SMB/DO-214AA

3.0A Surface Mount Schottky Barrier Diode

Feature

- ◆ Schottky Barrier Chip
- ◆ Ideally Suited for Automatic Assembly
- ◆ Guard Ring Die Construction for Transient Protection
- ◆ Surge Overload Rating to 100A Peak
- ◆ Low Power Loss, High Efficiency
- ◆ For Use in Low Voltage Application
- ◆ Plastic Case Material has UL Flammability Classification Rating 94V-0)

Figure



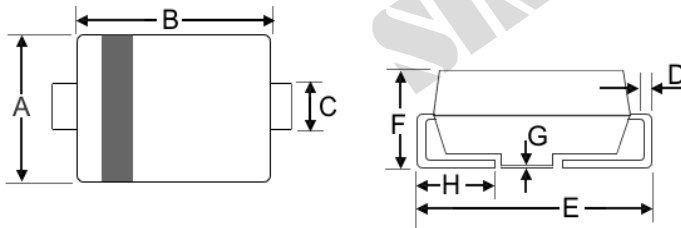
Mechanical Data

- ◆ Case: SMB/DO-214AA, Moldes Plastic
- ◆ Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026.
- ◆ Polarity: Cathode Band or Cathode Notch
- ◆ Weight: 0.093 grams (approx)
- ◆ Mounting : Type Number
- ◆ Lead Free: For **RoHS** / Lead Free Version Add "-LF" Suffix to part Number.

Dimension

Case: SMB/DO-214AA (mm)

Dim	Min	Max
A	3.30	3.94
B	4.06	4.70
C	1.91	2.11
D	0.15	0.31
E	5.08	5.59
F	2.13	2.44
G	0.05	0.20
H	0.76	1.27

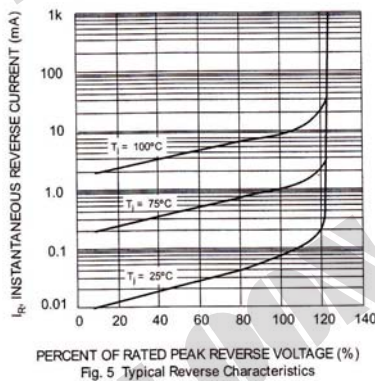


Marking Information

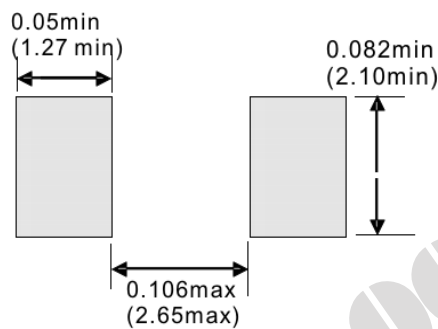
- Cathode = Polarity Band
- SSxx = Device Number
- xx = See Page 2
- Polarity = As Marked Body



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



Recommended Footprint



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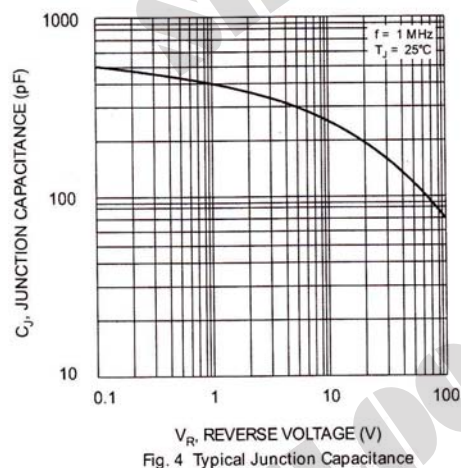
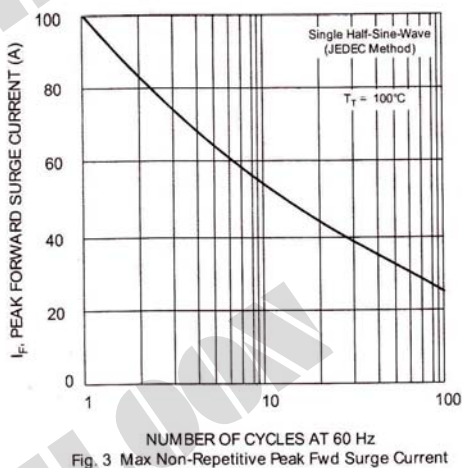
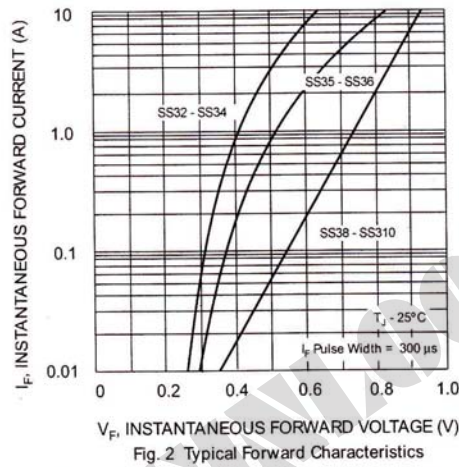
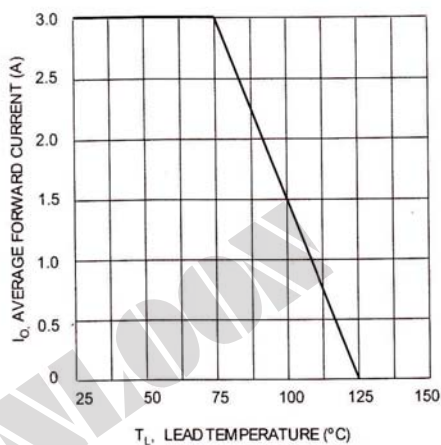
3.0A Surface Mount Schottky Barrier Diode

□ Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristics	Symbol	SS	SS	SS	SS	SS	SS	SS	SS	SS	Unit
		32	33	34	35	36	38	39	310		
Peak Repetitive Reverse Voltage	V_{RRM}										V
Working Peak Reverse Voltage	V_{RWM}	20	30	40	50	60	80	90	100		
DC Blocking Voltage	V_R										
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	56	64	71	V	
Average Rectified Output Current @ $T_L=75^\circ\text{C}$	I_O	3.0			3.0			3.0			A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100			100			100			A
Forward Voltage @ $I_F=3.0\text{A}$	V_{FM}	0.5			0.75			0.85			V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	I_{RM}	0.5			0.5			0.5			mA
At Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$		20.0			20.0			20.0			
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	20			20			20			$^\circ\text{C/W}$
	$R_{\theta JA}$	75			75			75			
Operating Temperature Range	T_J	-65 to +125									$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150									$^\circ\text{C}$

Note 1: Mounted on P.C. Board with 8.0mm² copper pad area.

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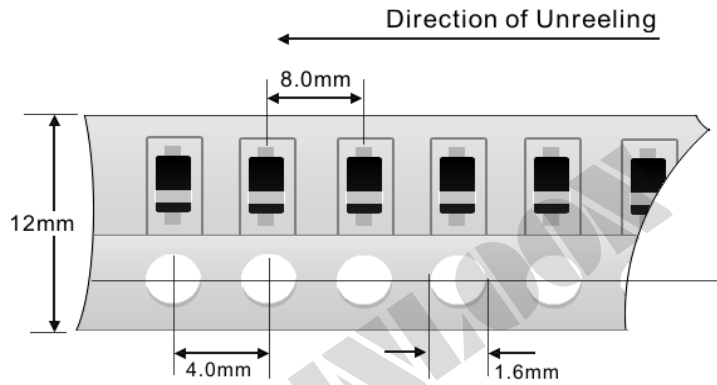
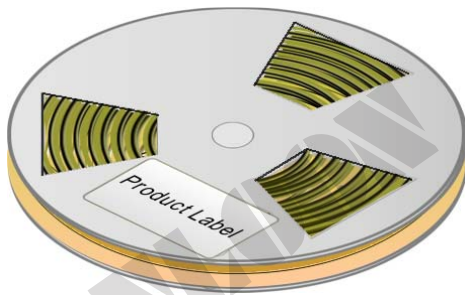
Packaging Information

Dimension Reel Tape	Quantity (Pcs)	Inner Box Size L x W x H	Quantity (Pcs)	Carton Size L x W x H	Quantity (Pcs)	Gross Weight
330 mm	3,000	340 x 337 x 45 mm	6,000	370 x 370 x 420 mm	48,000	14.0kg

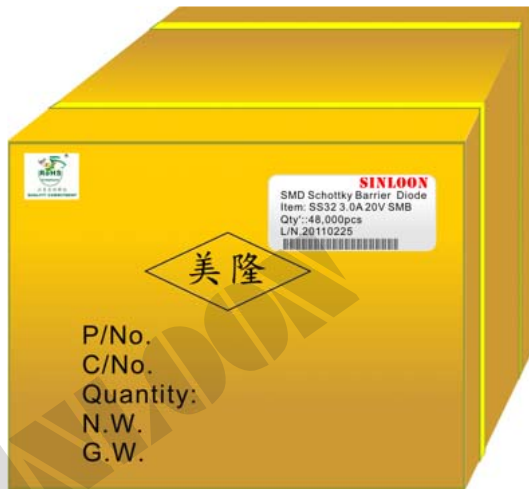
Note: 1. Paper Reel, White or gray color.
2. Components are packed in accordance with EIA standard 481- and 481-2

Tape Reel

330 x 12mm



Carton:



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※Mayloon characteristic parameters of electronic product specification changes or updates without notice to improve