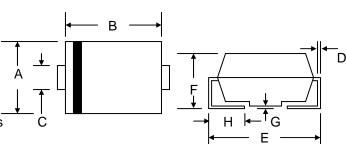


### 3.0A HIGH VOLTAGE SURFACE MOUNT SCHOTTKY BARRIER DIODE



### **Features**

- Low Forward Voltage
- Epitaxial Construction with Oxide Passivation
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 80A Peak
- Low Power Loss
- Fast Switching
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes



### **Mechanical Data**

- Case: SMA/DO-214AC, 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: 0.064 grams (approx.)
- Lead Free: For RoHS / Lead Free Version,
   Add "-LF" Suffix to Part Number, See Page 4

SMA/DO-214AC				
Dim	Min	Max		
Α	2.29	2.92		
В	4.00 4.60			
C	1.27	1.90		
D	0.152	0.305		
Е	4.80	5.30		
F	2.00	2.44		
G	0.051	0.203		
Н	0.76	1.52		
All Dimensions in mm				

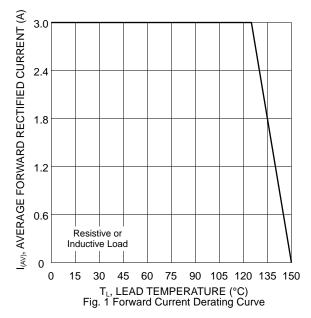
## Maximum Ratings @T<sub>A</sub>=25°C unless otherwise specified

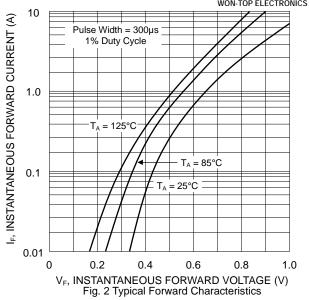
Characteristic	Symbol	SX3150	SX3200	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	150	200	V
RMS Reverse Voltage	VR(RMS)	105	140	V
Average Rectified Output Current (Note 1)	lo	3.0		А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	8	0	А
Forward Voltage @I <sub>F</sub> = 3.0A	VFM	0.	9	٧
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	IRM	0. 5.		mA
Typical Junction Capacitance (Note 2)	Сл	8	0	pF
Thermal Resistance, Junction to Ambient (Note 1) Thermal Resistance, Junction to Lead (Note 1)	R JA R JL	80 22		°C/W
Operating and Storage Temperature Range	TJ, TSTG	-55 to	+150	°C

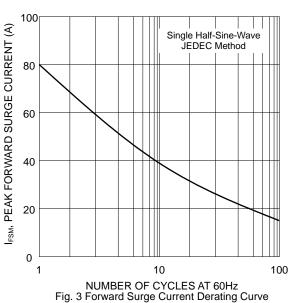
Note: 1. Mounted on FR-4 PCB with 5.0 x 5.0mm copper pads.

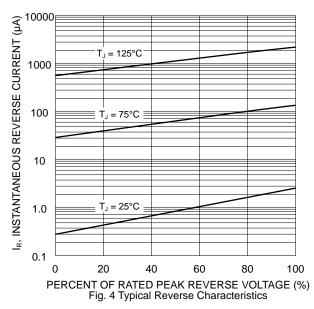
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

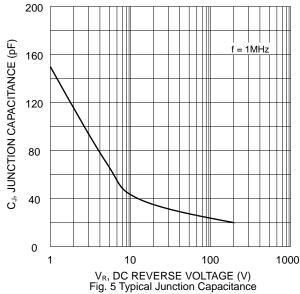








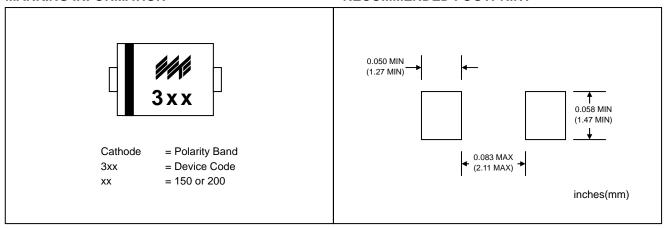




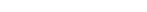


# **MARKING INFORMATION**

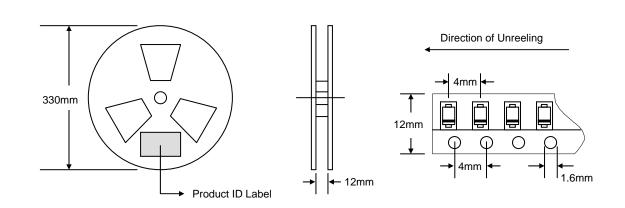
# RECOMMENDED FOOTPRINT



### **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	5,000	340 x 337 x 45	10,000	370 x 370 x 420	80,000	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
SX3150-T3	SMA	5000/Tape & Reel
SX3200-T3	SMA	5000/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, SX3150-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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