

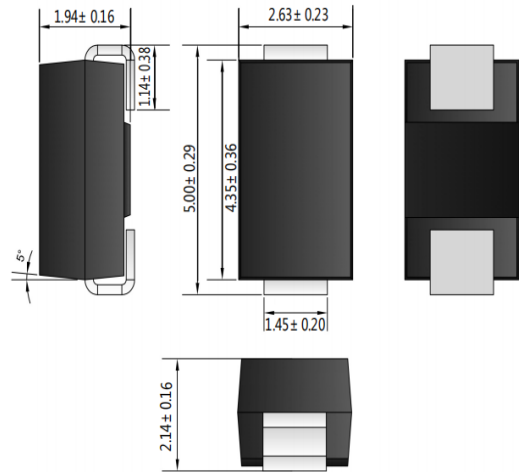
Features

- Low Forward Voltage
- Epitaxial Construction with Oxide Passivation
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 50A 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**

SMA /DO-214AC



Maximum Ratings @_{T_A}=25°C unless otherwise specified

Characteristic	Symbol	SR2150	SR2200	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	150	200	V
Working Peak Reverse Voltage	V _{RWM}			
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{R(RMS)}	105	140	V
Average Rectified Output Current (Note 1)	I _O	2.0		A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50		A
Forward Voltage @ I _F = 2.0A	V _{FM}	0.9		V
Peak Reverse Current @ T _J = 25°C	I _{RM}	0.2		mA
At Rated DC Blocking Voltage @ T _J = 100°C		5.0		
Typical Junction Capacitance (Note 2)	C _J	55		pF
Thermal Resistance, Junction to Ambient (Note 1)	R _{JA}	88		°C/W
Thermal Resistance, Junction to Lead (Note 1)	R _{JL}	25		
Operating and Storage Temperature Range	T _J , T _{STG}	-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.

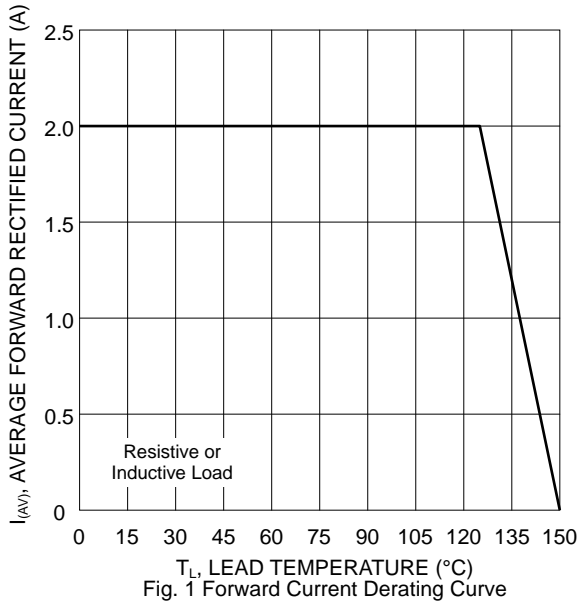


Fig. 1 Forward Current Derating Curve

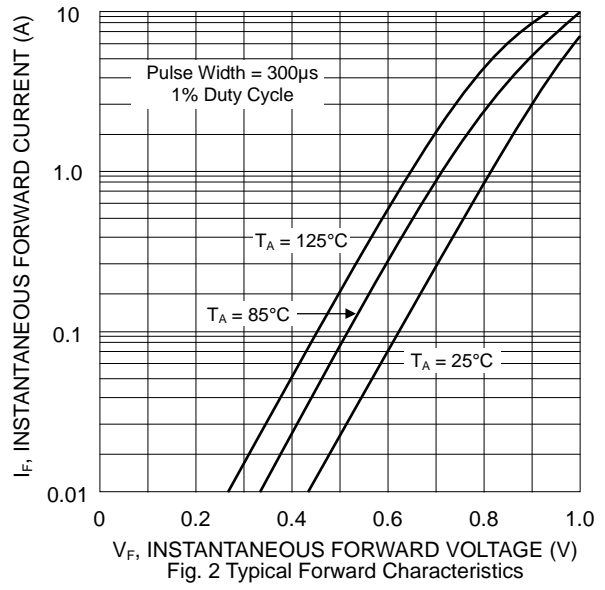


Fig. 2 Typical Forward Characteristics

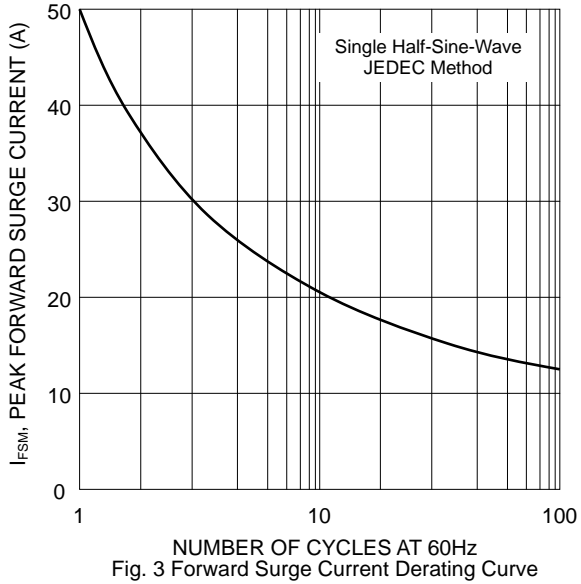


Fig. 3 Forward Surge Current Derating Curve

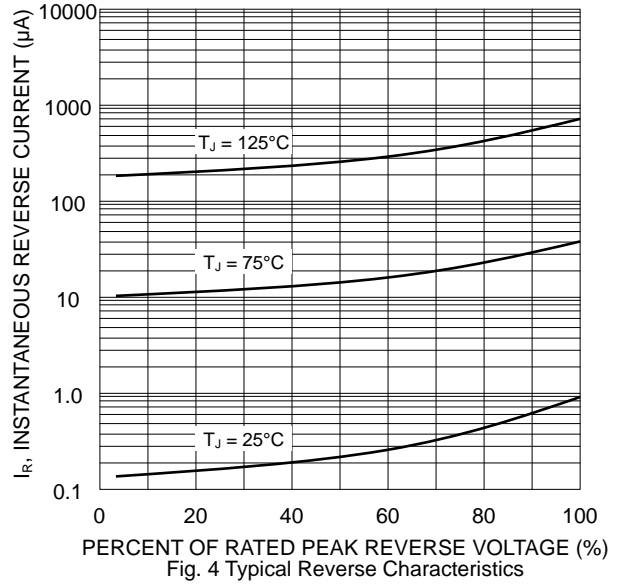


Fig. 4 Typical Reverse Characteristics

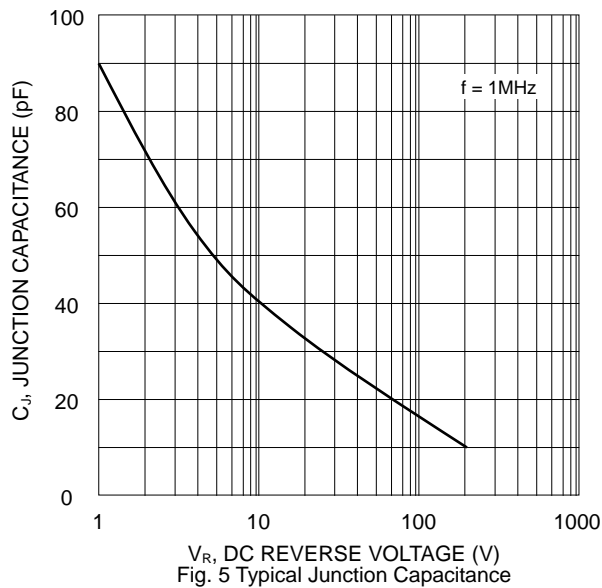
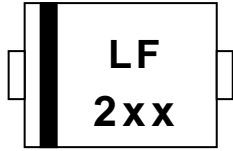


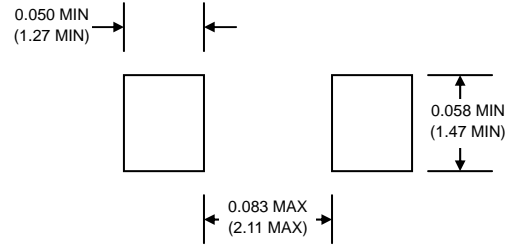
Fig. 5 Typical Junction Capacitance

MARKING INFORMATION



Cathode = Polarity Band
 2xx = Device Code
 xx = 150 or 200

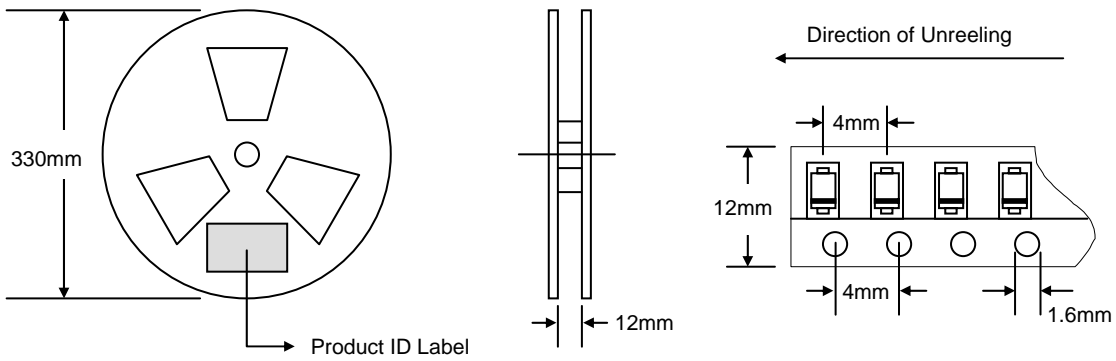
RECOMMENDED FOOTPRINT



inches(mm)

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