WON-TOP ELECTRONICS

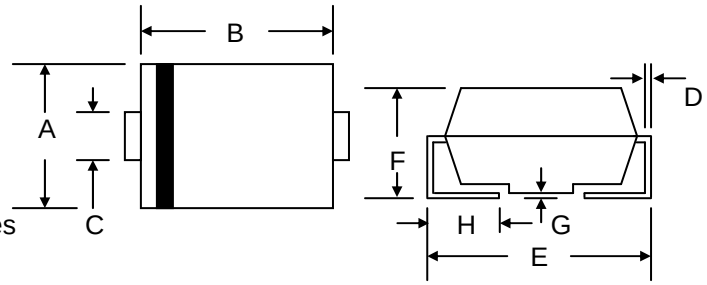
SR22 – SR210

2.0A SURFACE MOUNT SCHOTTKY BARRIER DIODE

RoHS Pb

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: Type Number
- 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**
A	2.29	2.92
B	4.00	4.60
C	1.27	1.90
D	0.152	0.305
E	4.80	5.30
F	2.00	2.44
G	0.051	0.203
H	0.76	1.52
All Dimensions in mm		

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	SR22	SR23	SR24	SR25	SR26	SR28	SR29	SR210	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	50	60	80	90	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	56	63	70	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}	0.50			0.70		0.85			V
Peak Reverse Current @T_J = 25°C At Rated DC Blocking Voltage @T_J = 100°C	I_{RM}	0.5 10								mA
Typical Junction Capacitance (Note 2)	C_J	150					100			pF
Thermal Resistance, Junction to Ambient (Note 1) Thermal Resistance, Junction to Lead (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	88 25								°C/W
Operating Temperature Range	T_J	-55 to +125			-55 to +150					°C
Storage Temperature Range	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.

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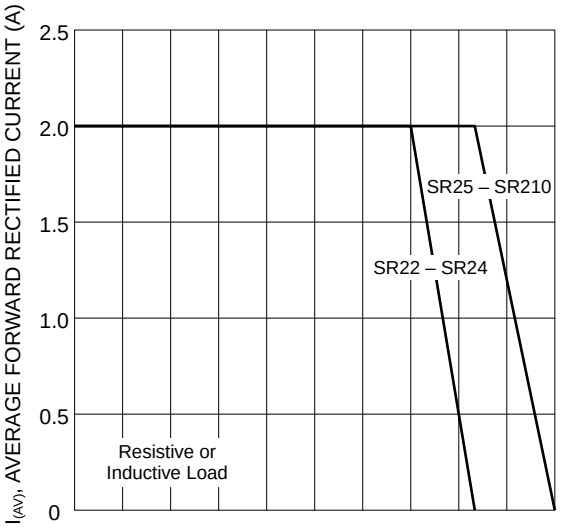


Fig. 1 Forward Current Derating Curve

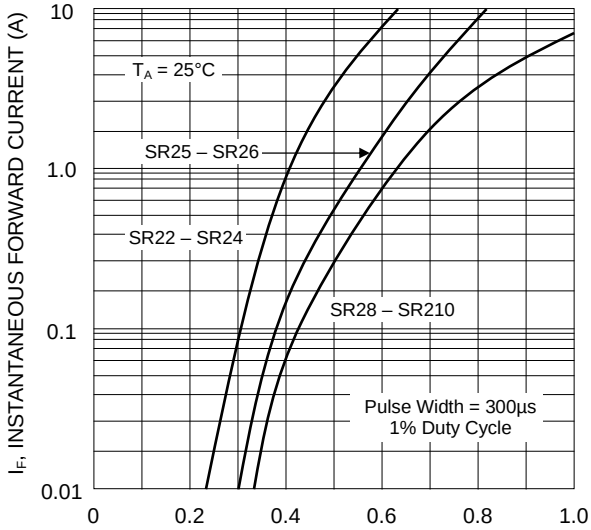


Fig. 2 Typical Forward Characteristics

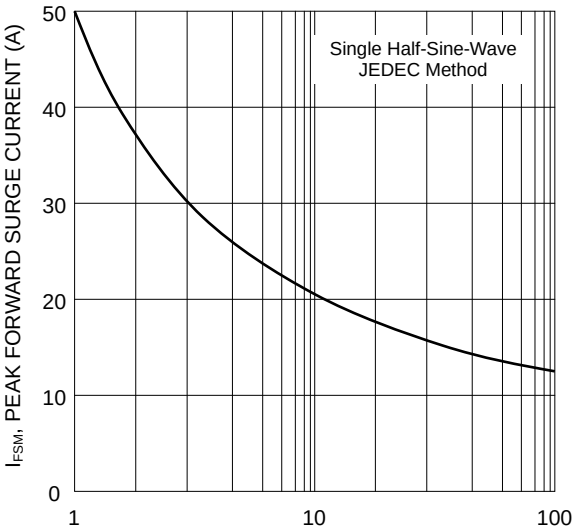


Fig. 3 Forward Surge Current Derating Curve

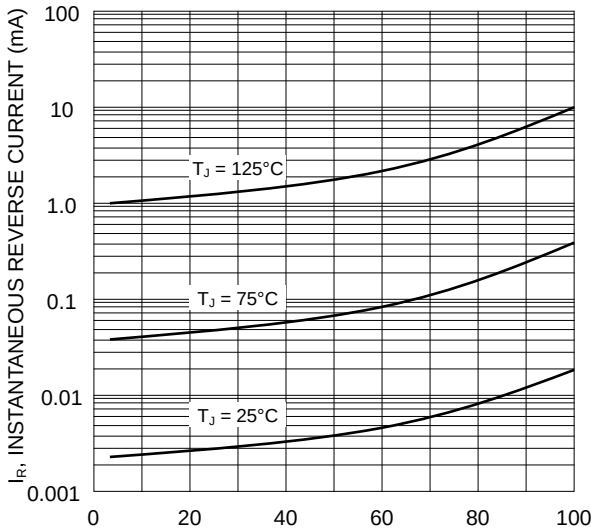


Fig. 4 Typical Reverse Characteristics

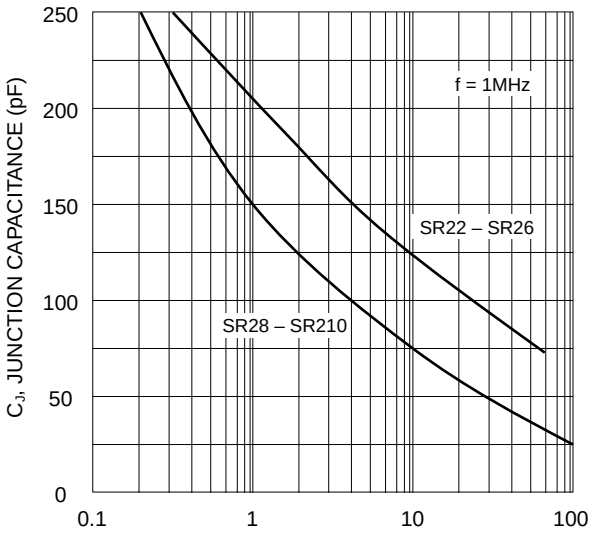
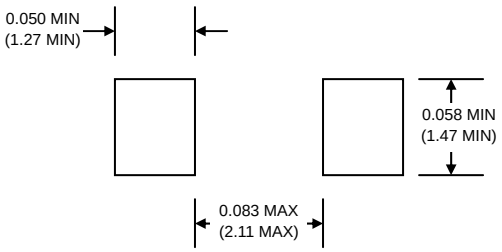


Fig. 5 Typical Junction Capacitance

MARKING INFORMATION

Cathode = Polarity Band
SR2x = Device Number
x = 2, 3, 4, 5, 6, 8, 9 or 10

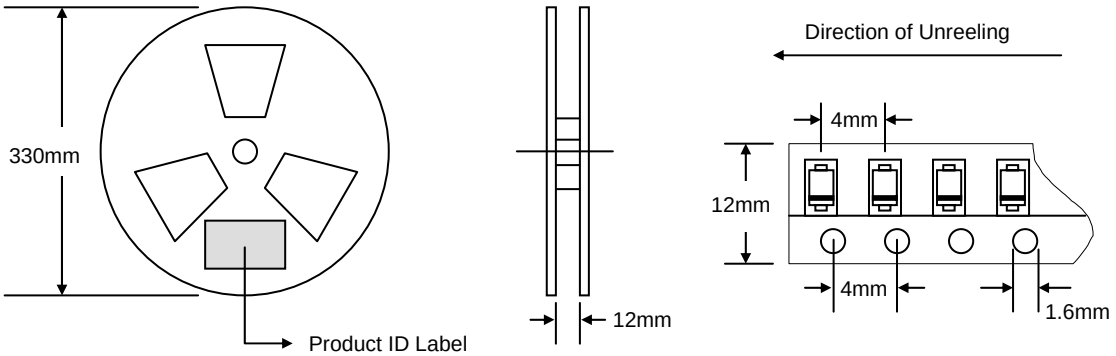
RECOMMENDED FOOTPRINT



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

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

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SR22-T3	SMA	5000/Tape & Reel
SR23-T3	SMA	5000/Tape & Reel
SR24-T3	SMA	5000/Tape & Reel
SR25-T3	SMA	5000/Tape & Reel
SR26-T3	SMA	5000/Tape & Reel
SR28-T3	SMA	5000/Tape & Reel
SR29-T3	SMA	5000/Tape & Reel
SR210-T3	SMA	5000/Tape & Reel

1. Shipping quantity given is for 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, SR22-T3-LF**.

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We power your everyday.