

DO-27 Plastic-Encapsulate Diodes

SR3100 THRU SR3200 Schottky Rectifier Diodes

Features

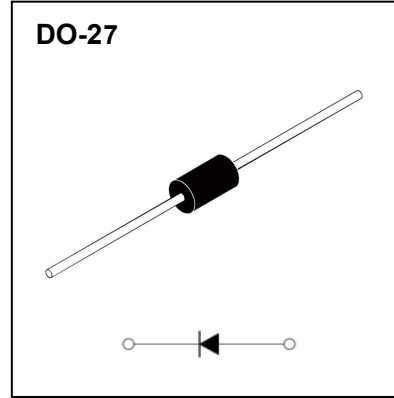
- $I_{F(AV)}$ 3A
- V_{RRM} 100V-200V
- High surge current capability
- Polarity: Color band denotes cathode

Applications

- Rectifier
- Marking

SR3XXX

XXX : From 100 To 200



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	SR3		
				100	150	200
Repetitive Peak Reverse Voltage	V_{RRM}	V		100	150	200
Maximum RMS Voltage	V_{RMS}	V		70	105	141
Maximum DC Blocking Voltage	V_{DC}	V		100	150	200
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, TL(Fig.1)	3.0		
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave , 1 cycle , $T_a = 25^{\circ}\text{C}$	80		
Junction Temperature	T_J	$^{\circ}\text{C}$		-55 ~ +150		
Storage Temperature	T_{STG}	$^{\circ}\text{C}$		-55 ~ +150		

Electrical Characteristics (T=25°C Unless otherwise specified)

Item	Symbol	Unit	Test Condition		SR3		
					100	150	200
Maximum Peak Forward Voltage	V _{FM}	V	I _{FM} =3.0A		0.85		0.95
Maximum Peak Reverse	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25℃	0.5	0.2	
	T _a =125℃			10	2.0		
Typical junction capacitance	C _J	pF	Measured at 1MHz and applied reverse voltage of 4.0V D.C.		160		
Typical Thermal Resistance	R _{θJ-A}	℃ /W	Between junction and ambient		40		
	R _{θJ-L}		Between junction and lead		20		

Notes:

1) Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length,P.C.B. mounted

Typical Characteristics

FIG. 1- FORWARD CURRENT DERATING CURVE

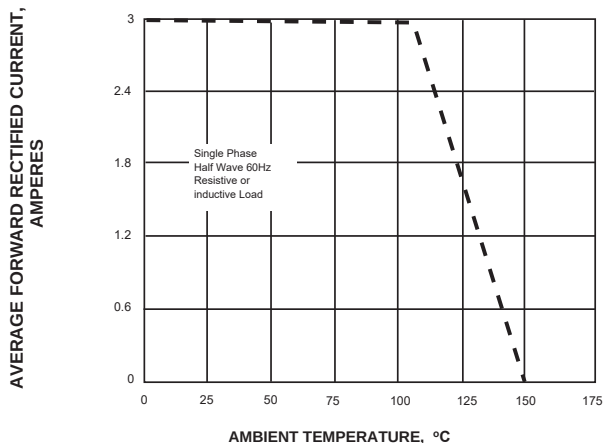


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

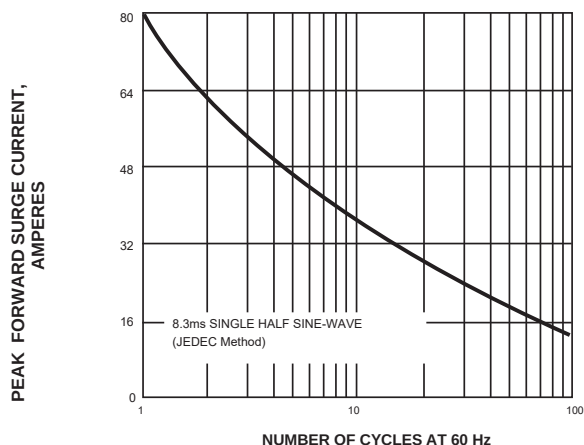


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

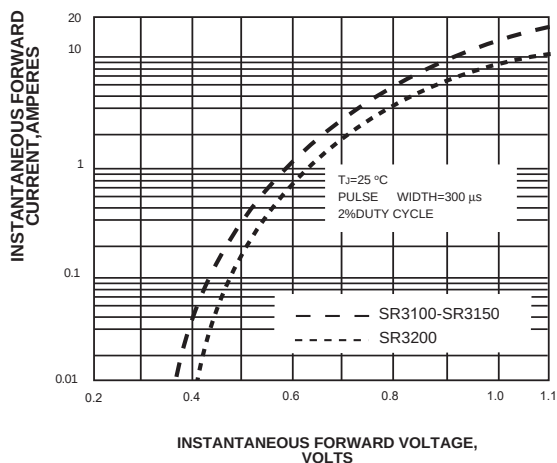


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

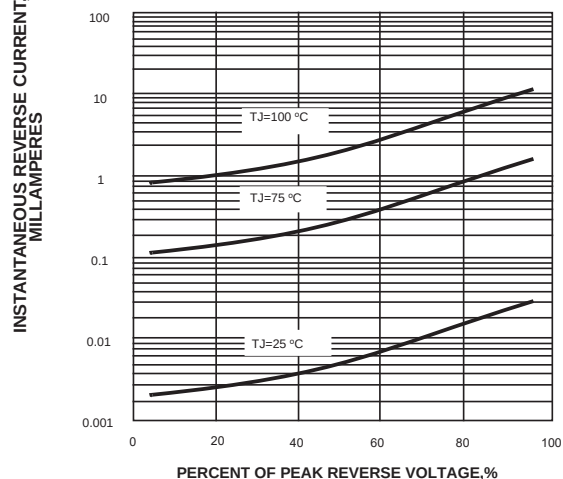


FIG. 5-TYPICAL JUNCTION CAPACITANCE

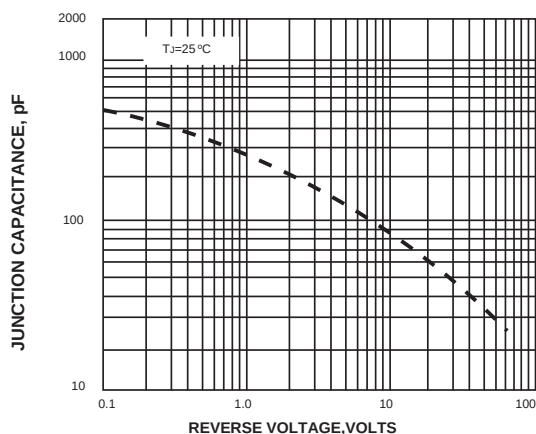
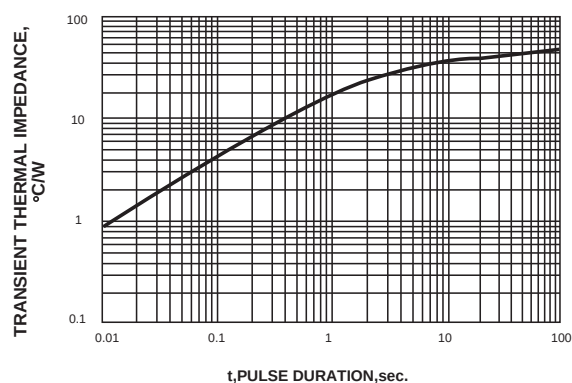
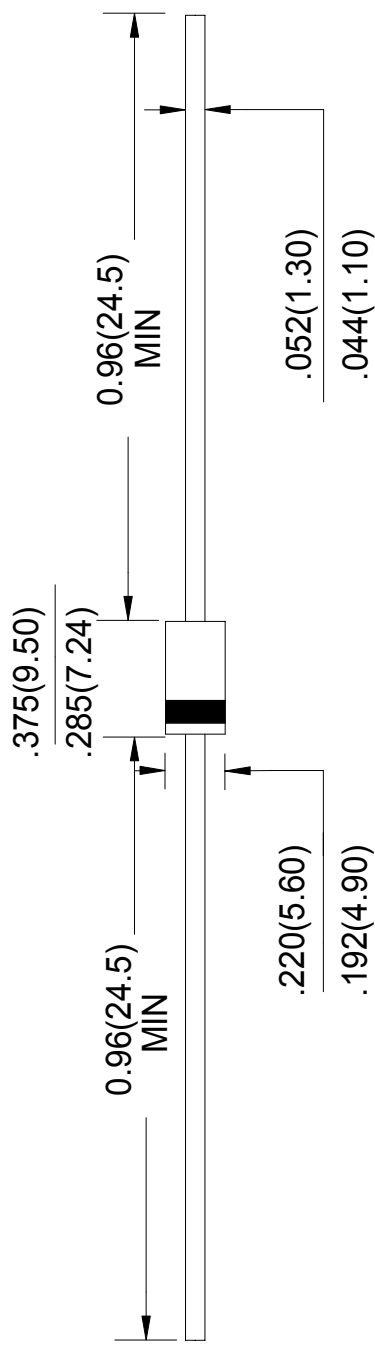


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE





Unit: in inches (millimeters)

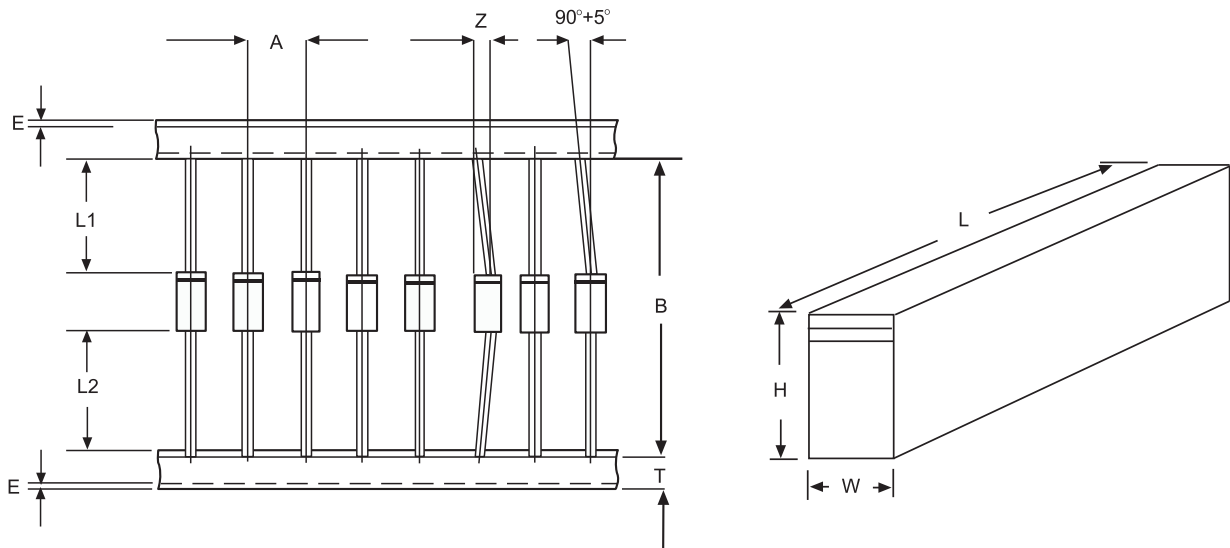
NOTICE

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Ammo Box Packaging Specifications For Axial Lead Rectifiers

Axial lead devices are packed in accordance with EIA standard RS-296-D and specifications given below

COMPONENT OUTLINE	COMPONENT PITCH A	INNER TAPE PITCH B	CUMULATIVE PITCH TOLERANCE
	$\pm 0.5\text{mm}(.020'')$	$+0.5\text{mm}(.020'')$	
R-1	5.0mm	26.0mm	2.0mm/20pitch
R-1	5.0mm	52.4mm	2.0mm/10pitch
A-405	5.0mm	26.0mm	2.0mm/20pitch
A-405	5.0mm	52.4mm	2.0mm/10pitch
DO-34/DO-35	5.0mm	26.0mm	2.0mm/20pitch
DO-34/DO-35	5.0mm	52.4mm	2.0mm/10pitch
DO-41	5.0mm	26.0mm	2.0mm/20pitch
DO-41	5.0mm	52.4mm	2.0mm/10pitch
DO-15	5.0mm	52.4mm	2.0mm/10pitch
DO-27	10.0mm	52.4mm	2.0mm/10pitch
R-6	10.0mm	52.4mm	2.0mm/10pitch



ITEM	SYMBOL	SPECIFICATIONS(mm)	SPECIFICATIONS(inch)
Component alignment	Z	1.2max	0.048max
Tape width	T	6.0 ± 0.4	0.236 ± 0.016
Exposed adhesive	E	0.8max	0.032max
Body eccentricity	IL1-L2I	1.0max	0.040max
Box length	L	255.0 ± 5.0	10.04 ± 0.197
Box width	W	78.0 ± 5.0	3.07 ± 0.197
Box height	H	150.0 ± 5.0	5.91 ± 0.197

NOTE:Each component lead shall be sandwiched between tapes for A minimum of 3.2mm(0.126'')