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HIGH DIODE

SR3100L

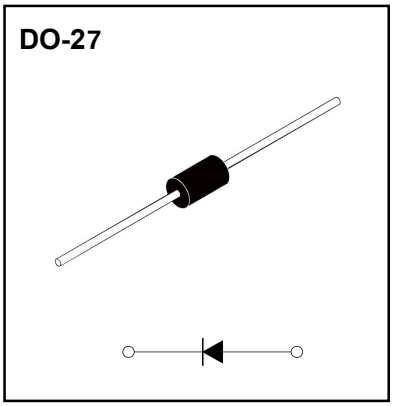
HD−ZC58

DO-27 Plastic-Encapsulate Diodes

Schottky Rectifier

Features

- I_O 3.0A
- VRRM 100V
- High surge current capability
- Polarity: Color band denotes cathode
- Low Vf



Applications

- Rectifier

Marking

- SR3100L

Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	SR3100L
Repetitive Peak Reverse Voltage	V_{RRM}	V		100
Maximum RMS Voltage	V_{RMS}	V		70
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, TL=100℃	3.0
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave,1 cycle, Ta=25℃	100
Junction Temperature	T_J	℃		-55~+150
Storage Temperature	T_{STG}	℃		-55~+150

Electrical Characteristics (T_a=25℃ Unless otherwise specified）

Item	Symbol	Unit	Test Condition		SR3100L
Peak Forward Voltage	V_F	V	IF=3A	T_a=25℃	0.6
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	T_a=25℃	0.02
	I_{RRM2}			T_a=125℃	50
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		45
	$R_{\theta J-L}$		Between junction and lead		8

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Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

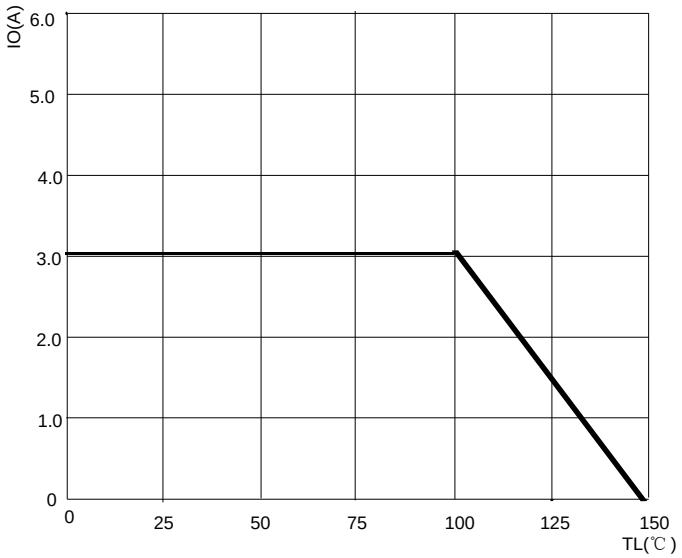


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

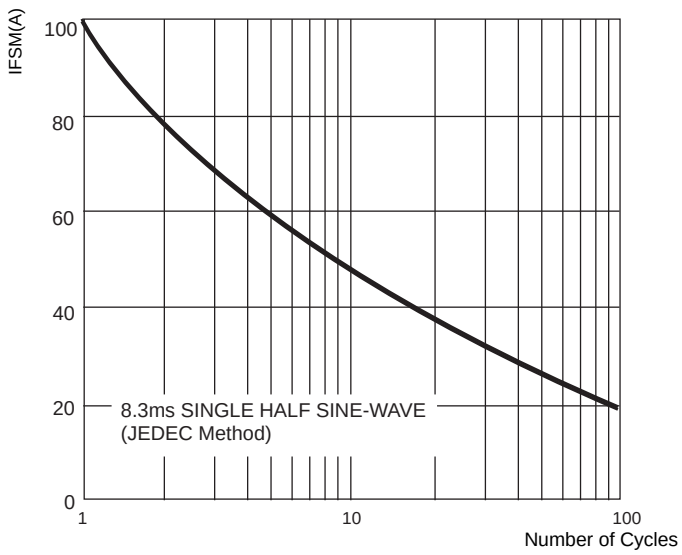


FIG3:Instantaneous Forward Voltage

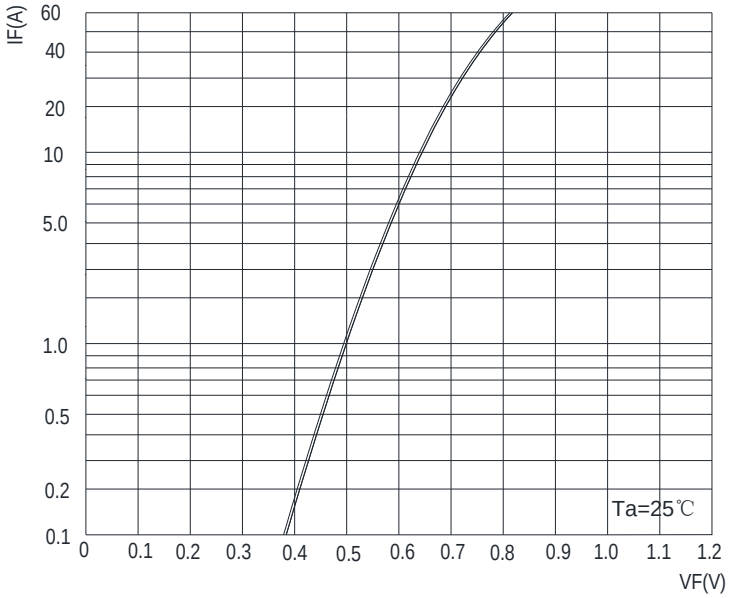
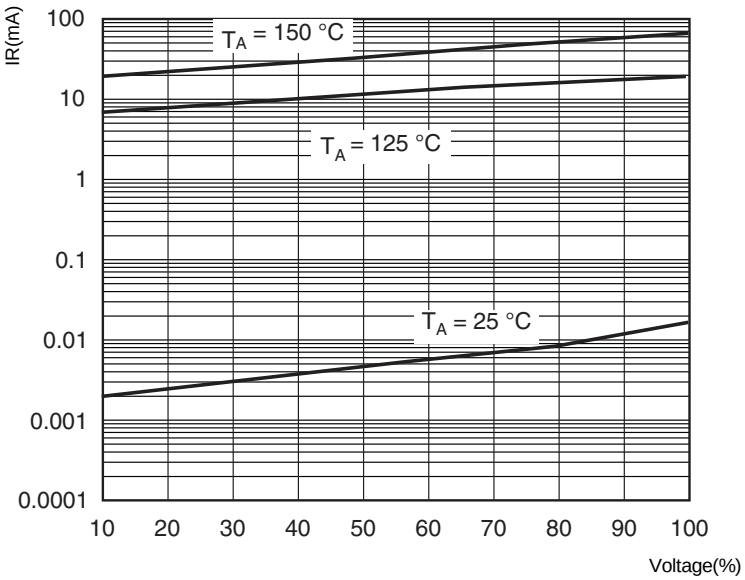
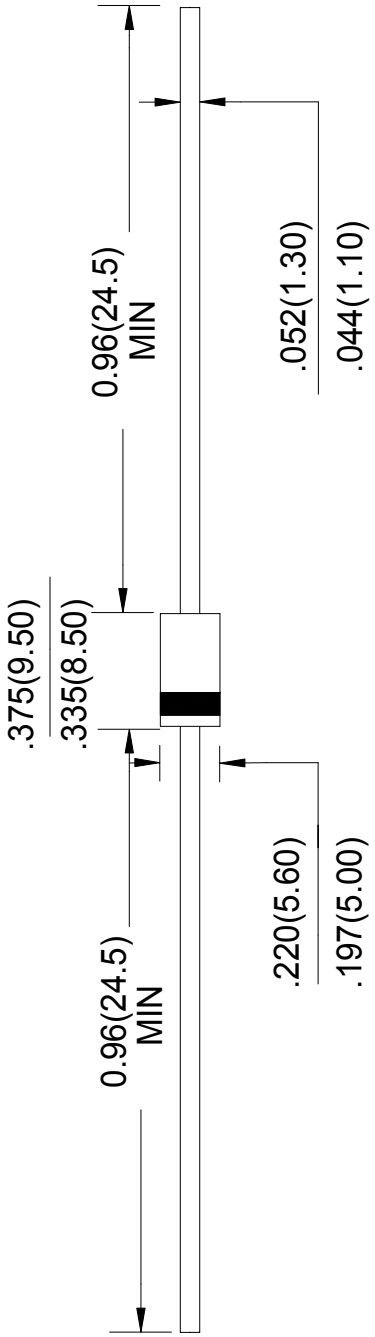


FIG.4：TYPICAL REVERSE CHARACTERISTICS



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DO-27 Package Outline Dimensions



Unit: in inches (millimeters)

NOTICE

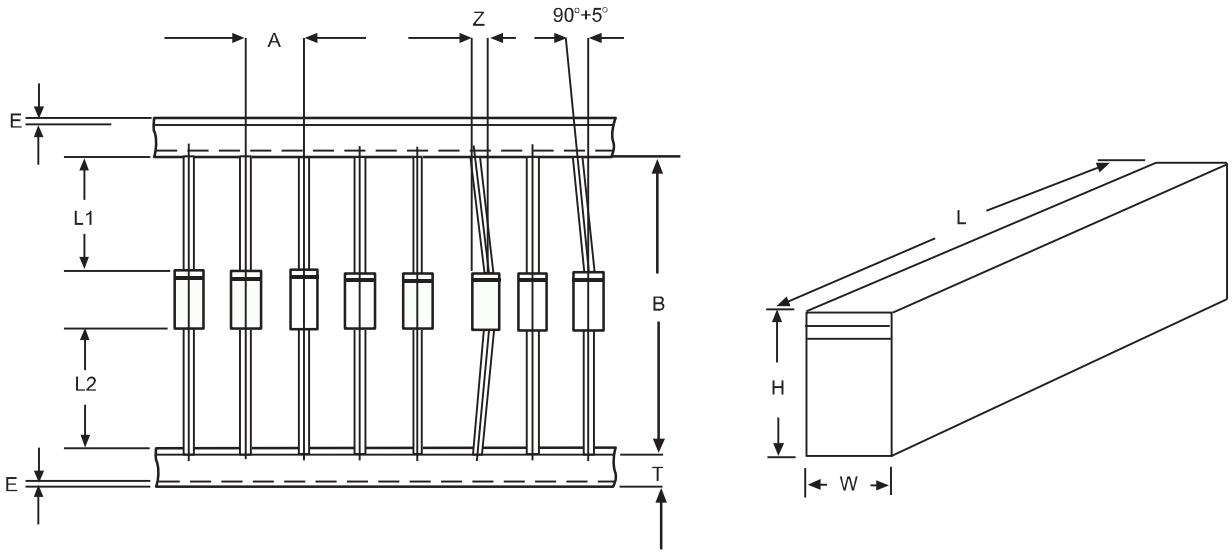
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Ammo Box Packaging Specifications For Axial Lead Rectifiers

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
	±0.5mm(.020``)	+0.5mm(.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	|L1-L2|	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``)