

## DO-15 Plastic-Encapsulate Diodes

## Schottky Rectifier

## Features

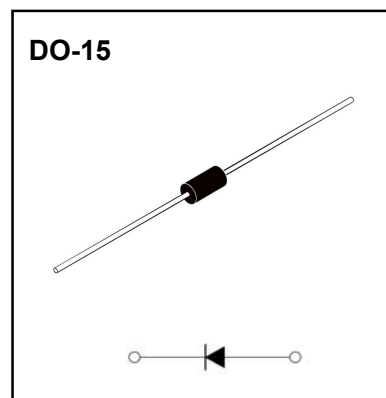
- $I_o$  2A
- $V_{RRM}$  20V-100V
- High surge current capability
- Polarity: Color band denotes cathode

## Applications

- Rectifier

## Marking

- SR2XX  
XX:From 20 to 100



## Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	SR2						
				20	30	40	50	60	80	100
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		20	30	40	50	60	80	100
Maximum RMS Voltage	$V_{RMS}$	V		14	21	28	35	42	56	70
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, TL(Fig.1)	2.0						
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	50						
Junction Temperature	$T_J$	$^\circ\text{C}$		-55~+125						-55 ~ +150
Storage Temperature	$T_{STG}$	$^\circ\text{C}$		-55 ~ +150						

Electrical Characteristics ( $T_a=25^\circ\text{C}$  Unless otherwise specified)

Item	Symbol	Unit	Test Condition	SR2						
				20	30	40	50	60	80	100
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=2.0\text{A}$	0.55			0.7		0.85	
Peak Reverse Current	$I_{RRM1}$	mA	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$						
	$I_{RRM2}$			$T_a=125^\circ\text{C}$						
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	Between junction and ambient			35				
	$R_{\theta J-L}$		Between junction and lead			20				

## Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

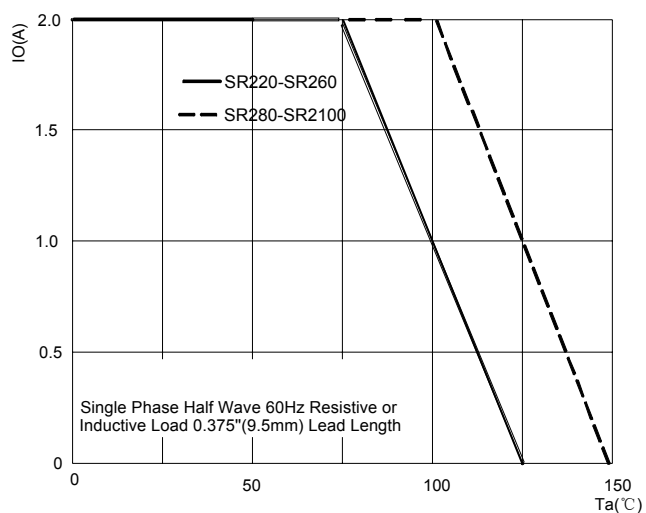


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

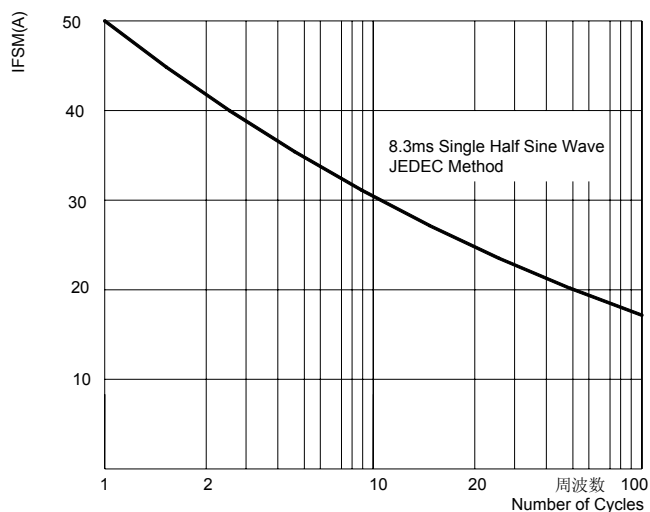


FIG.3: TYPICAL FORWARD CHARACTERISTICS

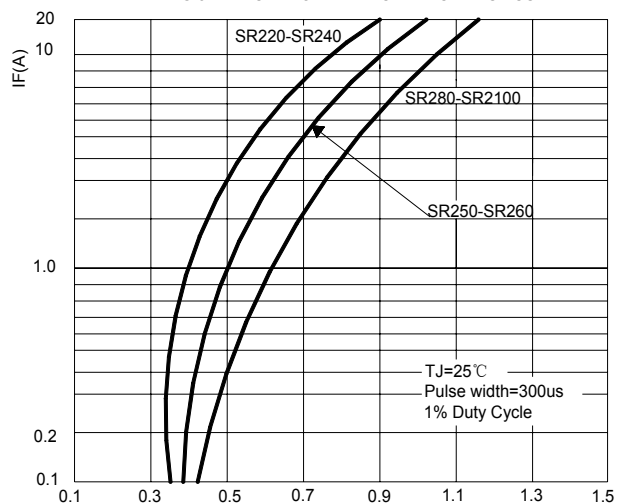
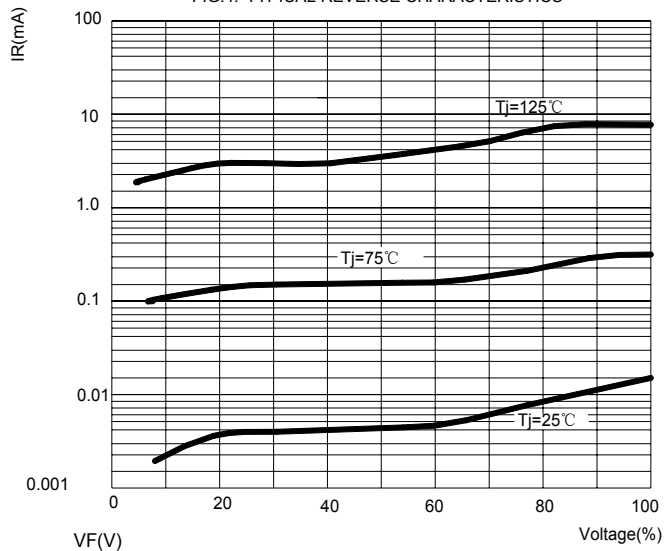
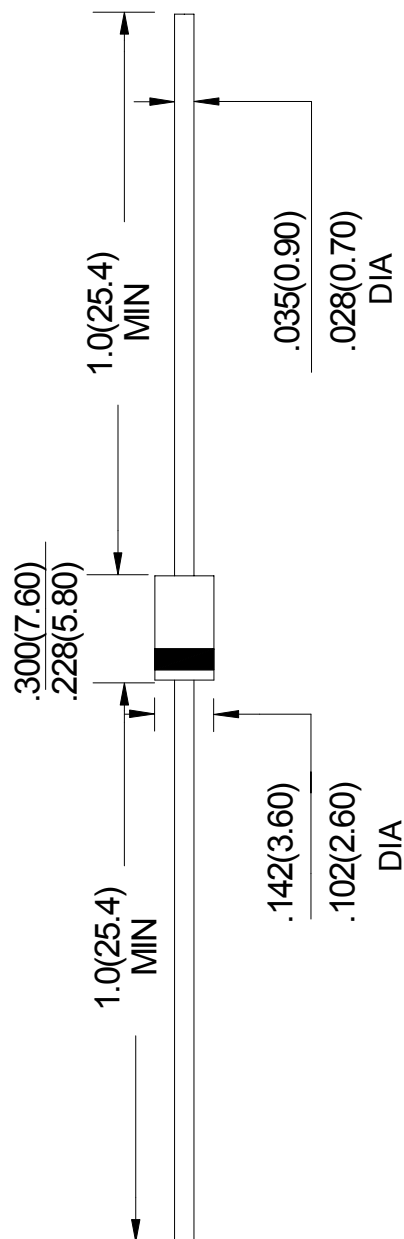


FIG.4: TYPICAL REVERSE CHARACTERISTICS



**DO-15 Package Outline Dimensions**

Unit: in inches (millimeters)

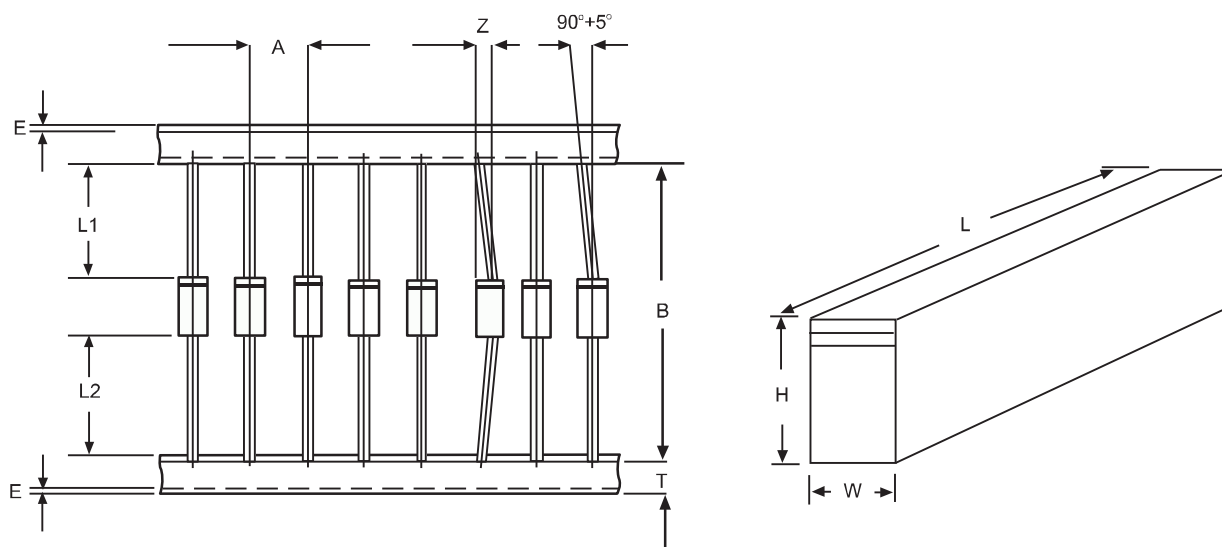
**NOTICE**

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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
	$\pm 0.5\text{mm}(.020'')$	$+0.5\text{mm}(.020'')$	
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	$6.0\pm 0.4$	$0.236\pm 0.016$
Exposed adhesive	E	0.8max	0.032max
Body eccentricity	$ L1-L2 $	1.0max	0.040max
Box length	L	$255.0\pm 5.0$	$10.04\pm 0.197$
Box width	W	$78.0\pm 5.0$	$3.07\pm 0.197$
Box height	H	$150.0\pm 5.0$	$5.91\pm 0.197$

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