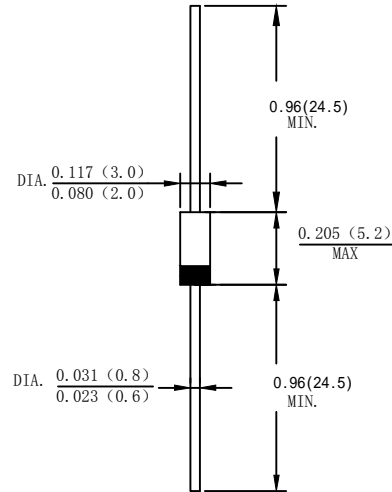


### Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound.
- Guard ring for overvoltage protection
- High current capability, low forward voltage drop
- Low power loss, high efficiency
- High surge capability

### Mechanical Data

- Case: Molded plastic DO-41
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For RoHS/Lead Free Version

**DO-41**


Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

- Rating at 25°C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

Type Number	SYMBOL	SR 140L	SR 145L	SR 150L	SR 160L	SR 180L	SR 1100L	SR 1150L	SR 1200L	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	28	31.5	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	40	45	50	60	80	100	150	200	V
Average Rectified Output Current (Note 1) @ $T_L=100^\circ\text{C}$	$I_F(AV)$	1.0								A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	40								A
$I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	6.64								$\text{A}^2\text{s}$
Forward Voltage @ $I_F=1.0\text{A}$	$V_{FM}$	0.45		0.5		0.75		0.85		V
Peak Reverse Current @ $T_A=25^\circ\text{C}$	$I_R$	0.1				0.05				mA
At Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$		10.0				5.0				
Typical Junction Capacitance (Note 2)	$C_J$	110								pF
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	25								$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-55 to + 150								$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to + 150								$^\circ\text{C}$

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



Ratings And Characteristic Curves

FIG. 1 - FORWARD CURRENT DERATING CURVE

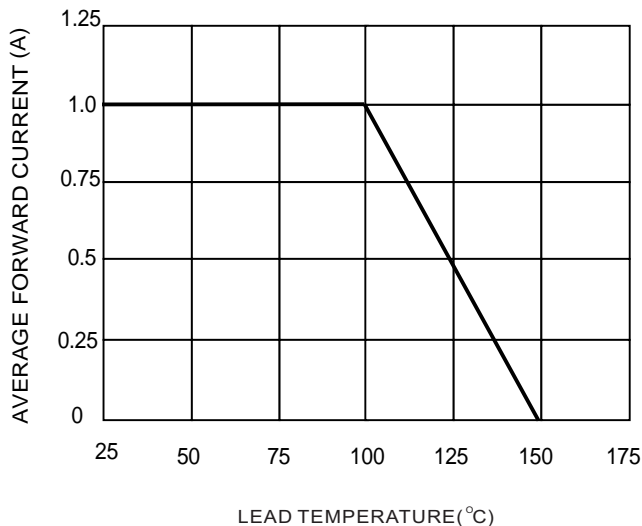


FIG.2-TYPICAL FORWARD CHARACTERISTICS

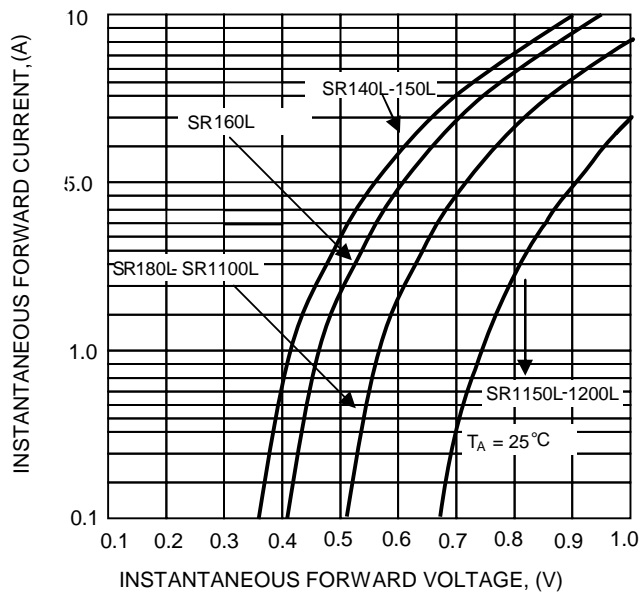


FIG. 3 MAXIMUM NON-REPETITIVE SURGE CURRENT

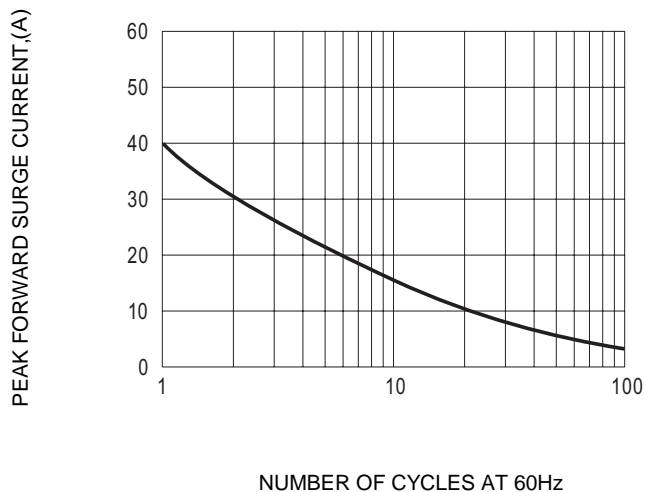
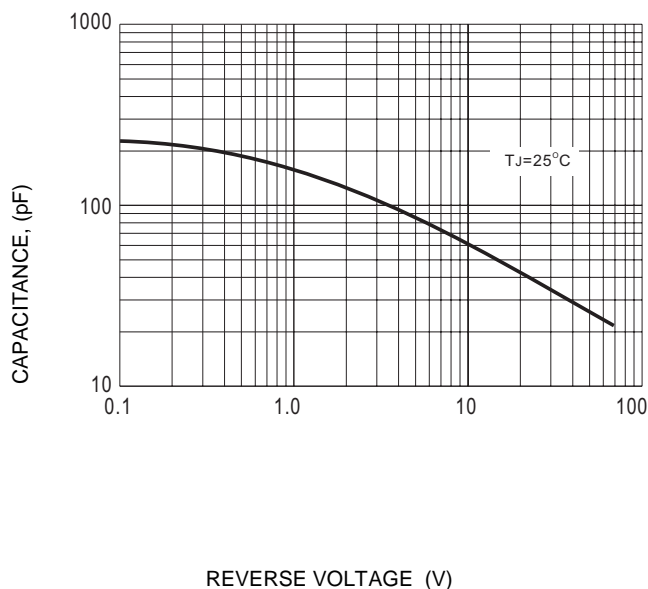


FIG.4 TYPICAL JUNCTION CAPACITANCE



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