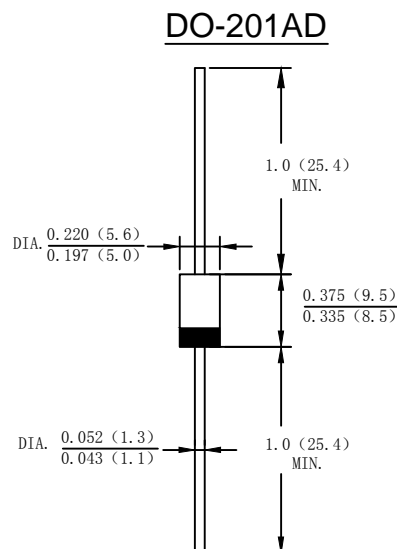


### Features

- 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: Moeded plastic DO-201AD
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band dented cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For Rohs/Lead Free Version



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 540L	SR 560L	SR 580L	SR 5100L	SR 5150L	SR 5200L	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	60	80	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	40	60	80	100	150	200	V
Average Rectified Output Current (Note 1) @ $T_A=95^\circ\text{C}$	$I_o$	5.0						A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	140						A
Forward Voltage @ $I_F=5.0\text{A}$	$V_{FM}$	0.45	0.5	0.6		0.8		V
Peak Reverse Current @ $T_A=25^\circ\text{C}$	$I_R$	0.2		0.1				mA
At Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$		10.0		5.0				
Typical Junction Capacitance (Note 2)	$C_J$	500	350				pF	
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	25						$^\circ\text{C/W}$
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

FIG. 1 - FORWARD CURRENT DERATING CURVE

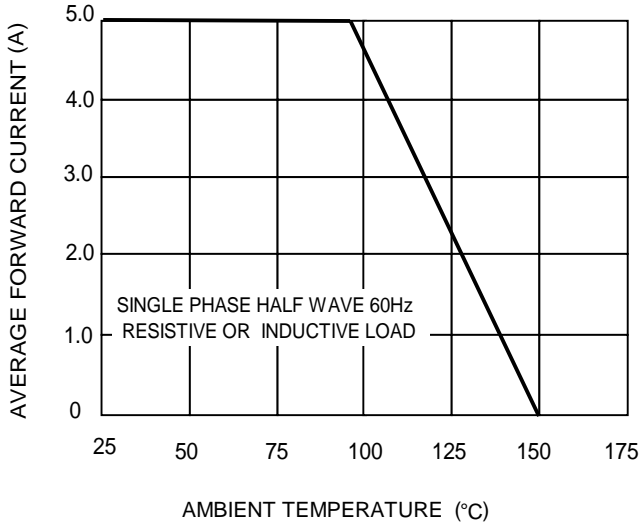


FIG.2-TYPICAL FORWARD CHARACTERISTICS

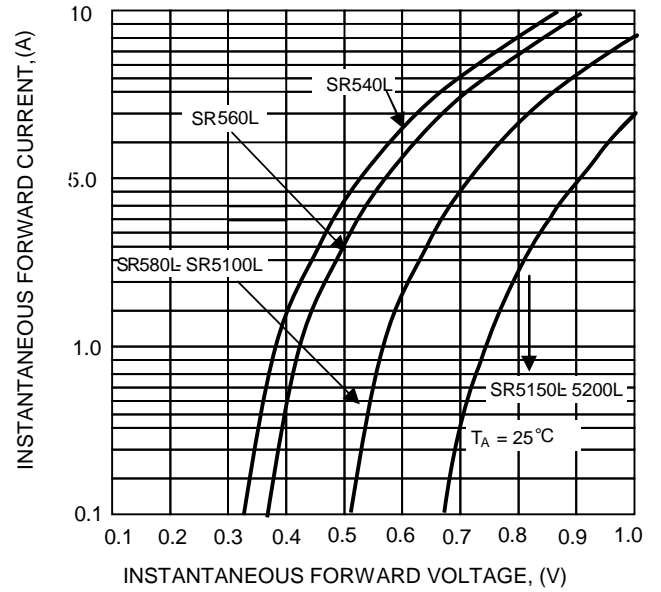


FIG. 3 MAXIMUM NON-REPETITIVE SURGE CURRENT

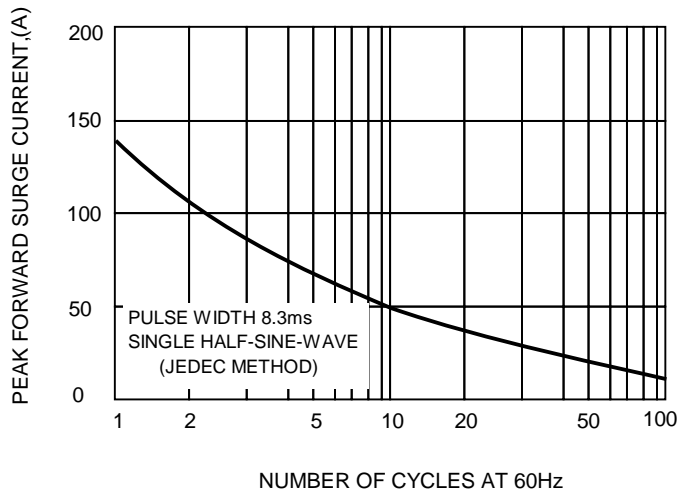


FIG.4 TYPICAL REVERSE CHARACTERISTIC

