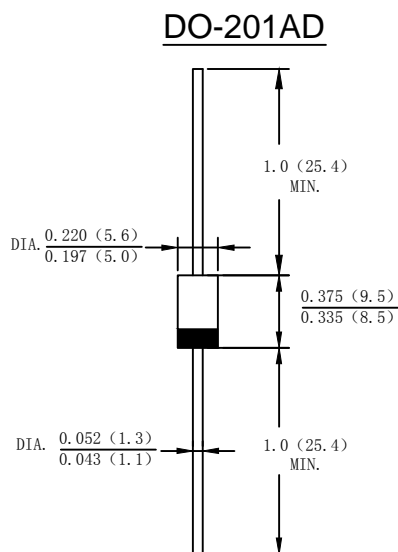


### Features

- 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 dentes 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 320	SR 330	SR 340	SR 350	SR 360	SR 380	SR 3100	SR 3150	SR 3200	SR 3250	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	250	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	175	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	250	V
Average Rectified Output Current (Note 1) @ $T_A=75^\circ C$	$I_O$	3.0										A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	80										A
Forward Voltage @ $I_F=3.0A$	$V_{FM}$	0.55		0.70		0.85		0.92		0.95		V
Peak Reverse Current @ $T_A=25^\circ C$	$I_R$	0.1					0.05					mA
At Rated DC Blocking Voltage @ $T_A=100^\circ C$		10.0					5.0					
Typical Junction Capacitance (Note 2)	$C_J$	250			160						pF	
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	40										$^\circ C/W$
Operating Temperature Range	$T_J$	-55 to + 150										$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to + 150										$^\circ C$

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- MAXIMUM FORWARD CURRENT DERATING CURVE

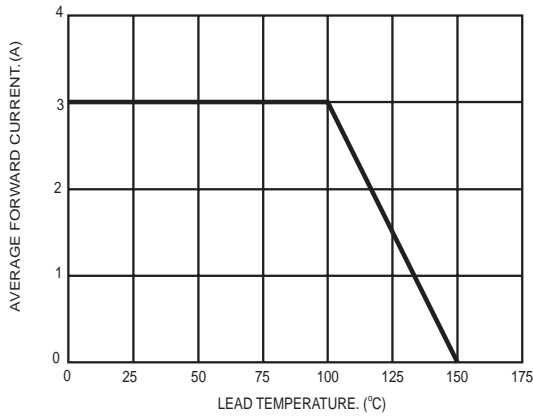


FIG.2- TYPICAL FORWARD CHARACTERISTICS

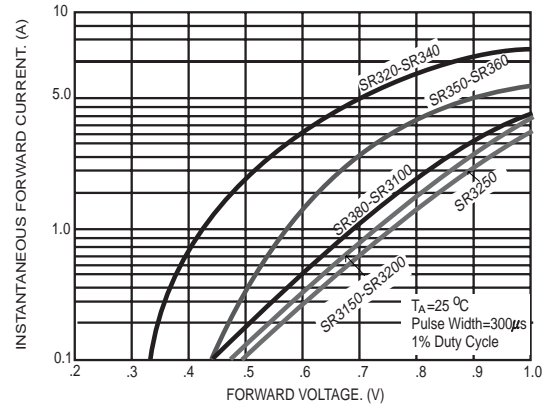


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

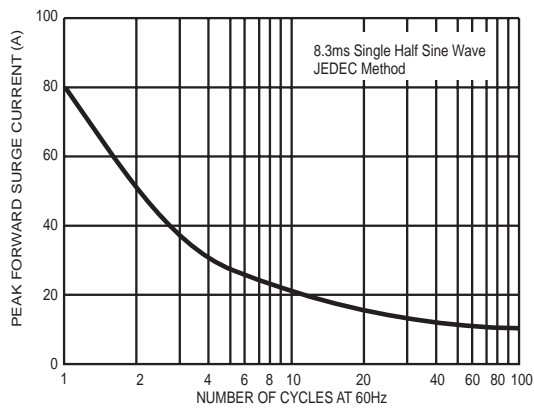


FIG.4- TYPICAL JUNCTION CAPACITANCE

