

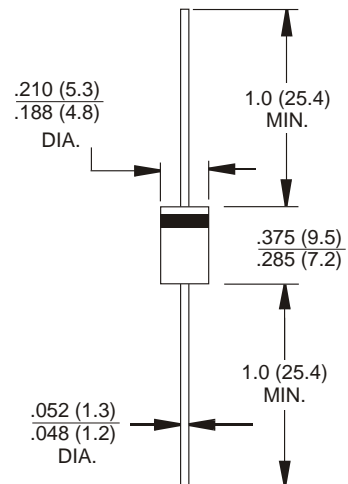
**Features**

- 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-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

DO-201AD Unit:inch(mm)



**Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified.**

Single Phase, half wave 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbol	SR 840L	SR 845L	SR 850L	SR 860L	SR 880L	SR 8100L	SR 8150L	SR 8200L	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	40	45	50	60	80	100	150	200	V
RMS Rectified Voltage	V <sub>RMS</sub>	28	31.5	35	42	56	70	105	140	V
DC Blocking Voltage	V <sub>DC</sub>	40	45	50	60	80	100	150	200	V
Average Rectified Output Current (Note 1) @T <sub>L</sub> =100°C	I <sub>F(AV)</sub>	8								A
Non-Repetitive Peak Forward Surge 8.3ms Single Half Sine-Wave Superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	150								A
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	93.375								A <sup>2</sup> s
Forward Voltage T <sub>A</sub> =25°C @I <sub>F</sub> =8A	V <sub>FM</sub>	0.45			0.5	0.6		0.85		V
Peak Reverse Current T <sub>A</sub> =25°C At Rated DC Blocking Voltage T <sub>A</sub> =100°C	I <sub>R</sub>	0.2				0.1				mA
		10				5				
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	450								pF
Typical Thermal Resistance Junction to Ambient (Note 1)	R <sub>θJA</sub>	75								°C/W
Operating and Storage Junction Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150								°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.  
 2. Measured at 1.0MHz and applied reverse voltage of 4.0VDC.

# DEVICE CHARACTERISTICS

## SR840L THRU SR8200L

FIG. 1 - FORWARD CURRENT DERATING CURVE

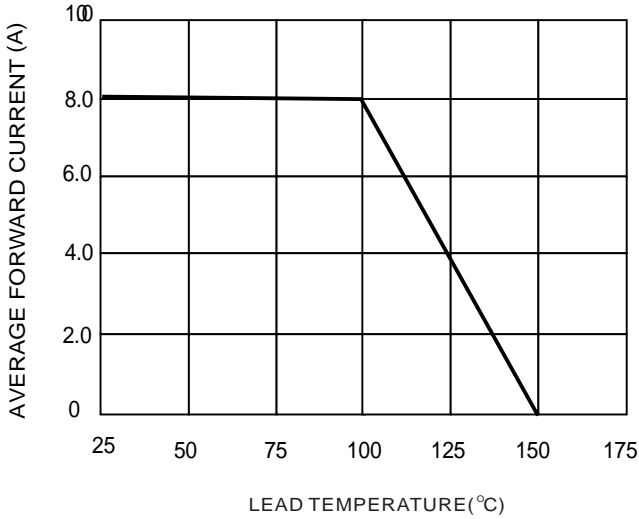


FIG.2-TYPICAL FORWARD CHARACTERISTICS

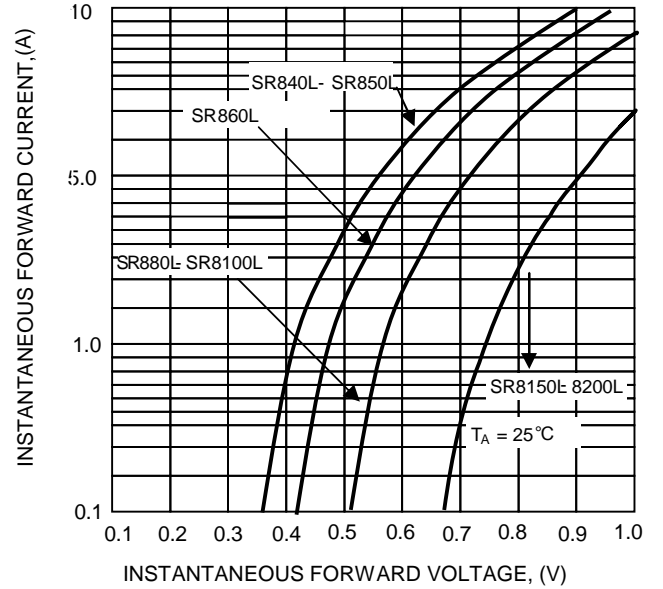


FIG. 3 MAXIMUM NON-REPETITIVE SURGE CURRENT

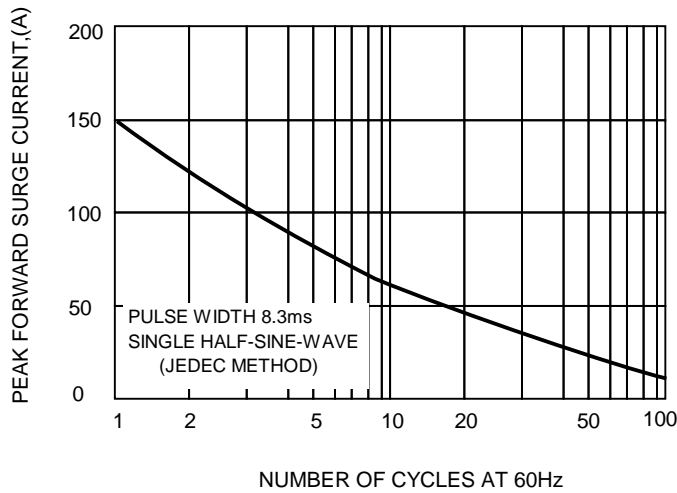


FIG.4 TYPICAL REVERSE CHARACTERISTIC

