

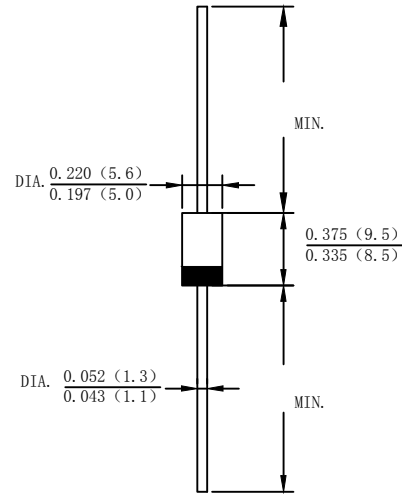
Features

- 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/DO-27
- 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-201AD/DO-27



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%

Parameter	Symbol	SR1045L	SR1050L	SR1060L	SR1080L	SR10100L	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}							
Working Peak Reverse Voltage	V_{RWM}	45	50	60	80	100	V	
DC blocking voltage	V_{DC}							
RMS Rectified Voltage	$V_{R(RMS)}$	32	35	42	56	70	V	
Average Rectified Output Current (Note1)	$I_F(AV)$	10						A
Non-Repetitive Peak Forward Surge 8.3ms Single Half Sine-Wave Superimposed on rated load (JEDEC Method) (Note2)	I_{FSM}	150						A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	93.375						A ² s
Forward Voltage Drop $T_A = 25^\circ C$ @ $I_F = 10A$	V_{FM}	0.45		0.55		0.75	V	
Peak Reverse Current $T_A = 25^\circ C$ At Rated DC Blocking Voltage $T_A = 100^\circ C$	I_R	0.3 15						mA
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$ $R_{\theta JL}$	80 10						$^\circ C/W$
Operating junction 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 - FORWARD CURRENT DERATING CURVE

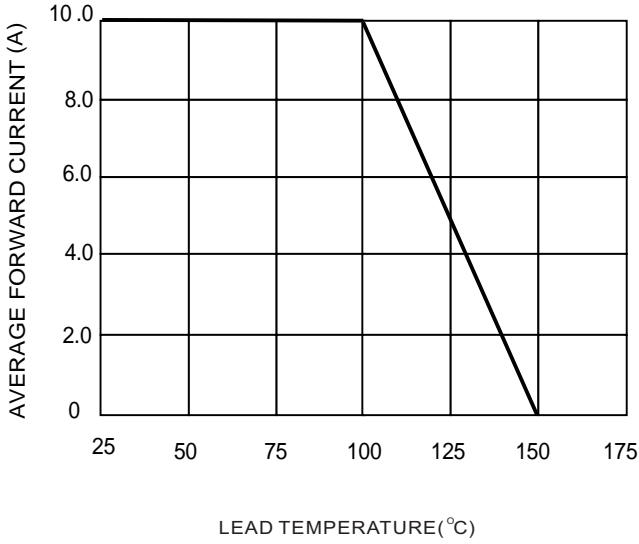


Fig2 : Instantaneous Forward Voltage

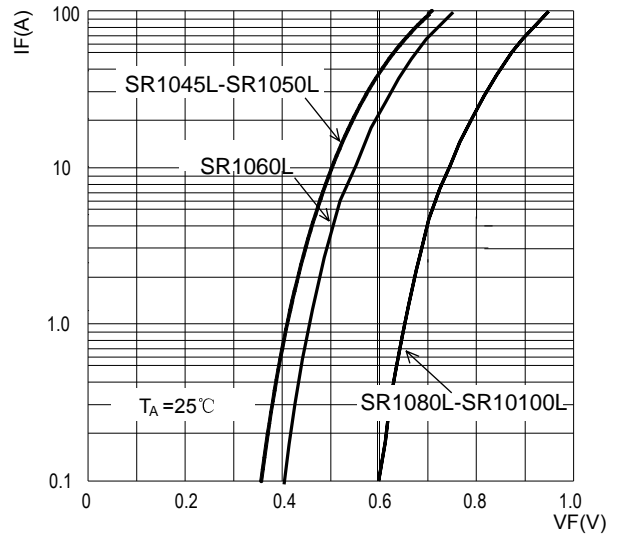


Fig3: Surge Forward Current Capadility

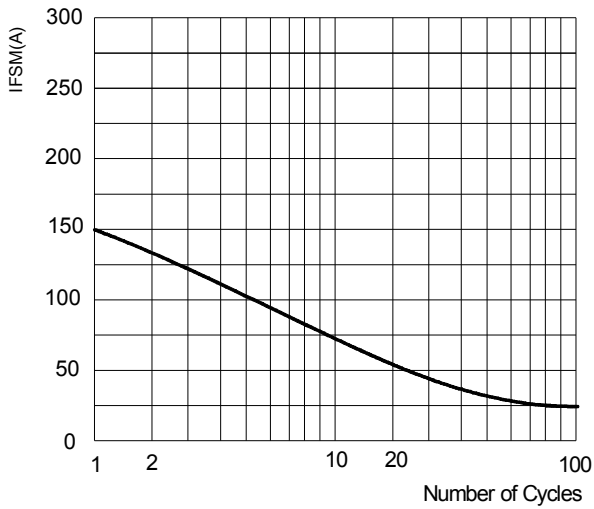
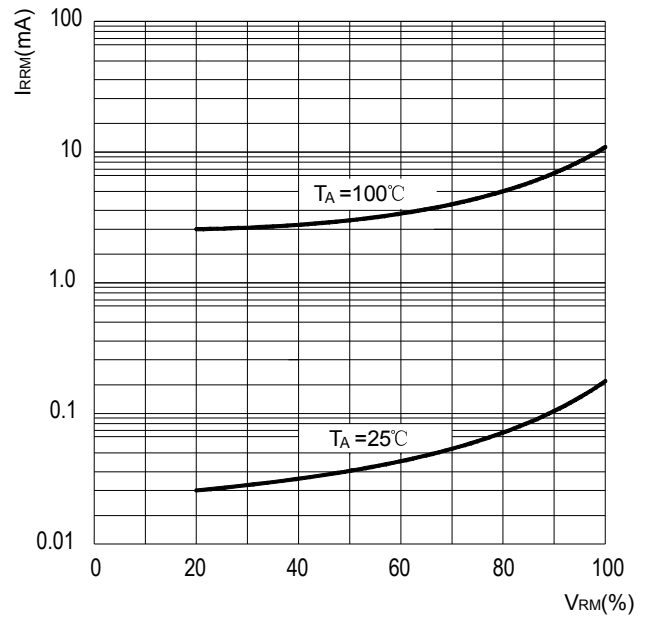


Fig4: Typical Reverse Characteristics



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