

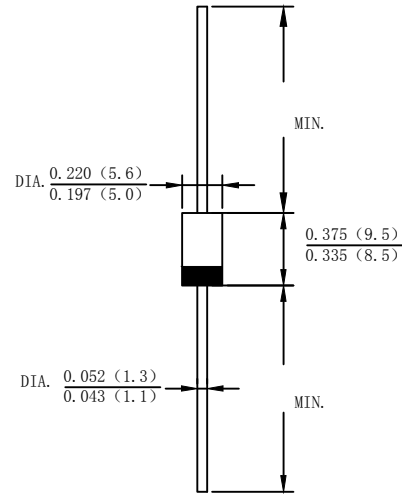
### Features

- 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)  | IF(AV)                             | 10          |         |         |         |          | A                |
| Non-Repetitive Peak Forward Surge 8.3ms<br>Single Half Sine-Wave Superimposed on rated<br>load (JEDEC Method) (Note2) | $I_{FSM}$                          | 150         |         |         |         |          | A                |
| $I^2t$ Rating for Fusing ( $t < 8.3ms$ )  | $I^2t$                             | 93.375      |         |         |         |          | A <sup>2</sup> s |
| Forward Voltage Drop $T_A = 25^\circ C$ @IF=10A   | $V_{FM}$                           | 0.45        | 0.55    | 0.75    |         |          | V                |
| Peak Reverse Current $T_A = 25^\circ C$<br>At Rated DC Blocking Voltage $T_A = 100^\circ C$                           | $I_R$                              | 0.3         |         |         | 15      |          | mA               |
| Typical Thermal Resistance<br>Junction to Ambient   | $R_{\theta JA}$<br>$R_{\theta JL}$ | 80          |         |         | 10      |          | °C/W             |
| Operating junction temperature range  | $T_J$                              | -55 to +150 |         |         |         |          | °C               |
| storage temperature range   | $T_{STG}$                          | -55 to +150 |         |         |         |          | °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

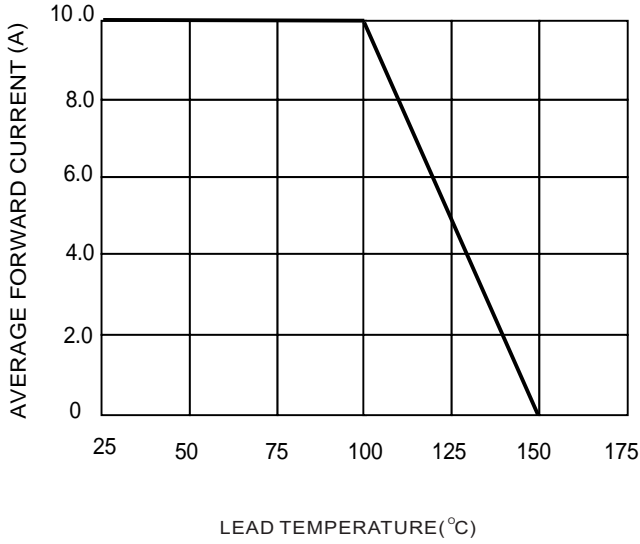


Fig2 : Instantaneous Forward Voltage

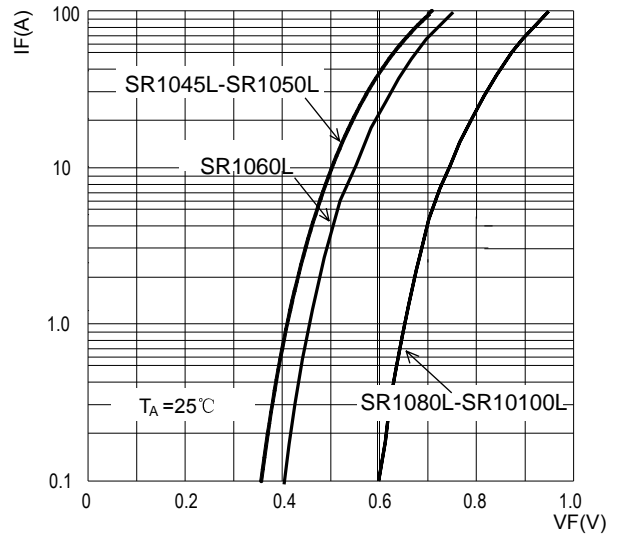


Fig3: Surge Forward Current Capacity

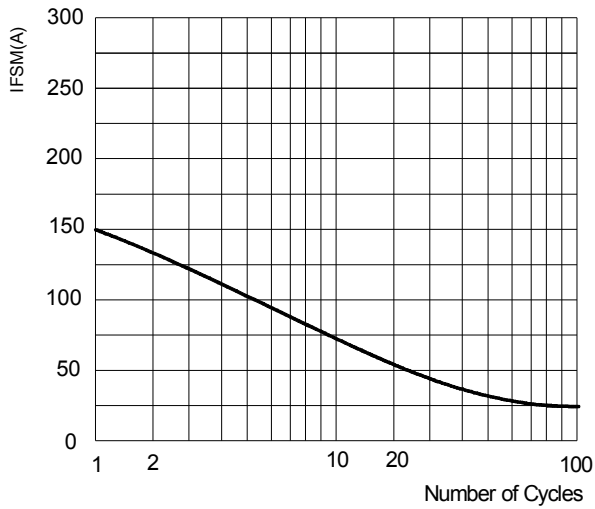
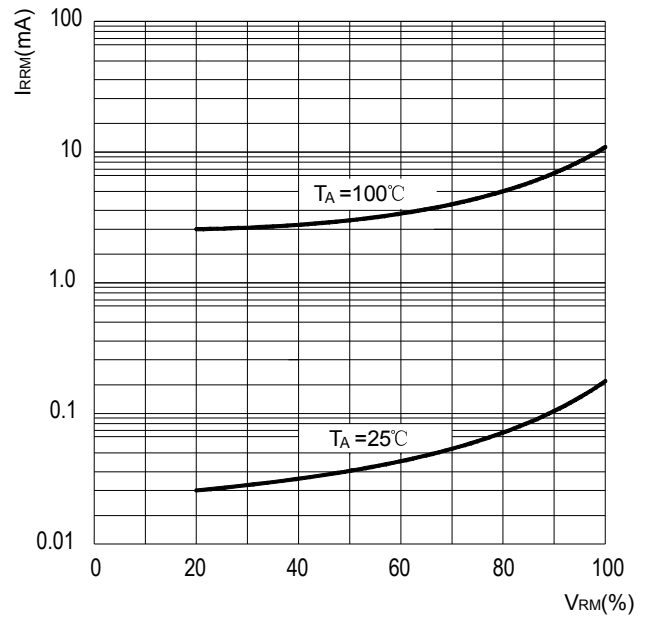


Fig4: Typical Reverse Characteristics



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