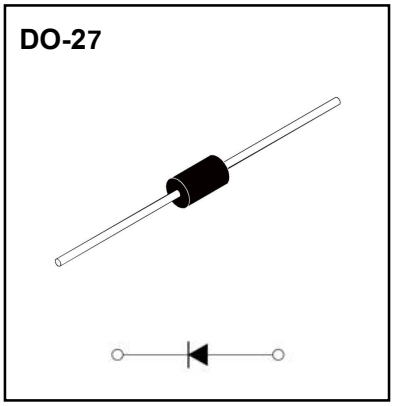
FEATURES

* High reliability
* Low switching loss
* Low forward voltage drop
* High current capability
* High switching capability



MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O* Case: Molded plastic
* Lead: MIL-STD-202E method 208C guaranteed
* Mounting: position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

resistive or inductive load.

Characteristic	Symbol	SR5300	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	300	V
RMS Reverse Voltage	$V_{R(RMS)}$	210	V
Average Rectified Output Current @T_L = 95°C (Note 1)	I_O	5.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150	A
Forward Voltage @I_F = 5.0A	V_{FM}	0.89	V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 100°C	I_{RM}	0.1 10	mA
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	25	°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +175	°C

NOTES： 1. Thermal Resistance : At 9.5mm lead lengths, PCB mounted.

RATING AND CHARACTERISTICS CURVES (SR5300)

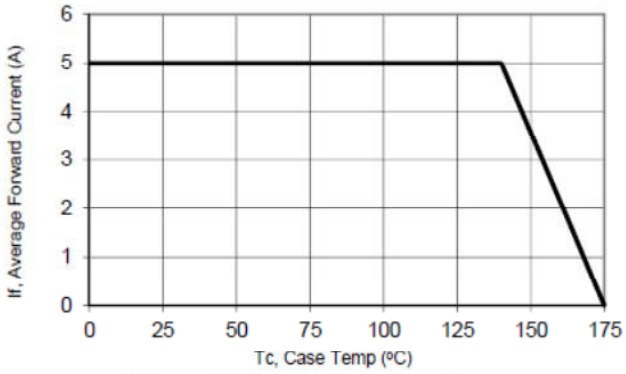


Figure 1: Current Derating, Case

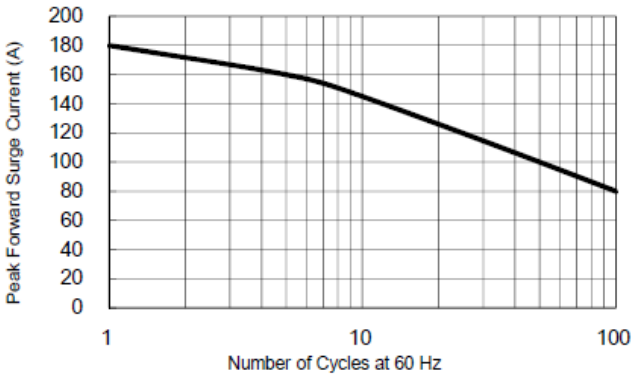


Figure 2: Maximum Repetitive Surge Current

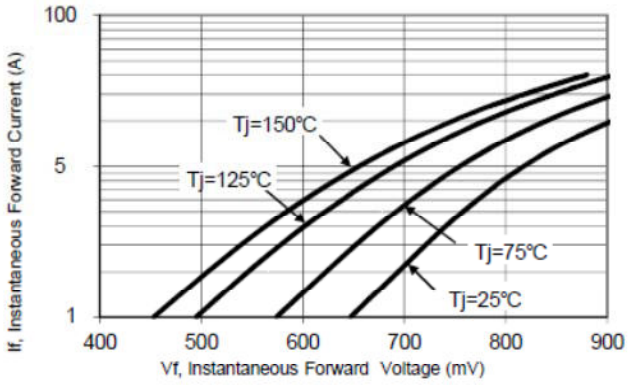


Figure 3: Typical Reverse Current

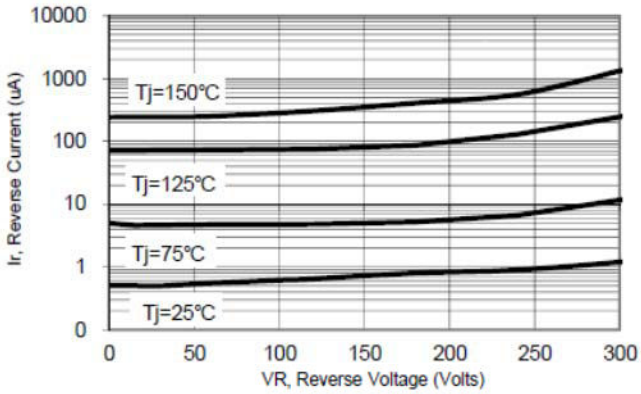
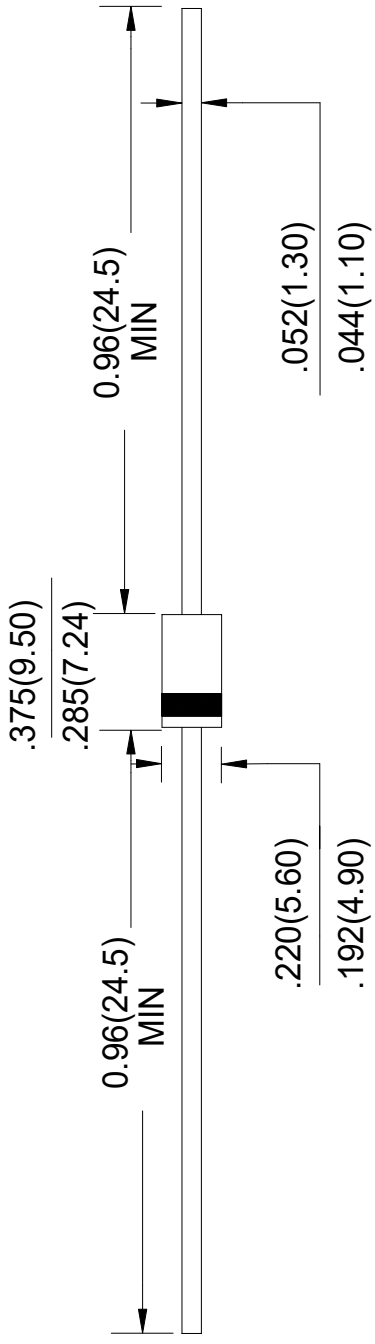


Figure 4: Typical Forward Voltage



Unit: in inches (millimeters)