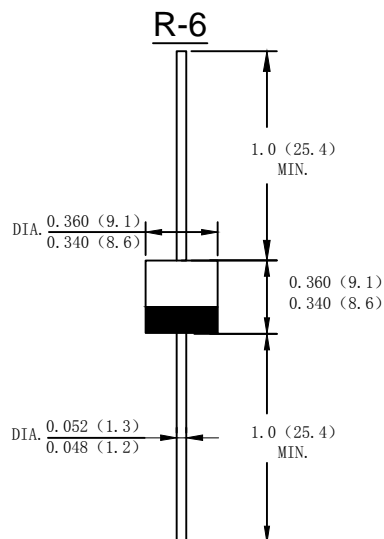


Features

- Low power loss,high efficiency.
- High current capability.
- High reliability
- High surge current capability.
- Plastic package has Underwriters Laboratory Plammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound
- For use in low voltage, high frequen inverters free wheeling and polarity protection applications

Mechanical Data

- Case: Moeded plastic R-6
- Polarity: Color band dentes cathode end
- Mounting Position: Any



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 820	SR 830	SR 840	SR 850	SR 860	SR 880	SR 8100	SR 8150	SR 8200	Unit	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V	
Maximum RMS Voltage	V_{RMS}	14	21	26	35	42	56	80	105	140	V	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V	
Average Rectified Output Current (Note 1) @ $T_A=95^\circ\text{C}$	I_o	8.0									A	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150									A	
Forward Voltage @ $I_F=8.0\text{A}$	V_{FM}	0.55			0.7		0.85		0.92		V	
Peak Reverse Current @ $T_A=25^\circ\text{C}$	I_R	0.3					0.05					mA
At Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$		10					5					
Typical Junction Capacitance	C_J	450									pF	
Typical Thermal Resistance Junction to Ambient(Note 2)	$R_{\theta JA}$	75.0									$^\circ\text{C}/\text{W}$	
Operating Temperature Range	T_J	-55 to + 150									$^\circ\text{C}$	
Storage Temperature Range	T_{STG}	-55 to + 150									$^\circ\text{C}$	

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

2.P.C.B.mounted with 0.2×0.2" (5.0×5.0mm) copper pad areas

Fig. 1-FORWARD CURRENT DERATING CURVE

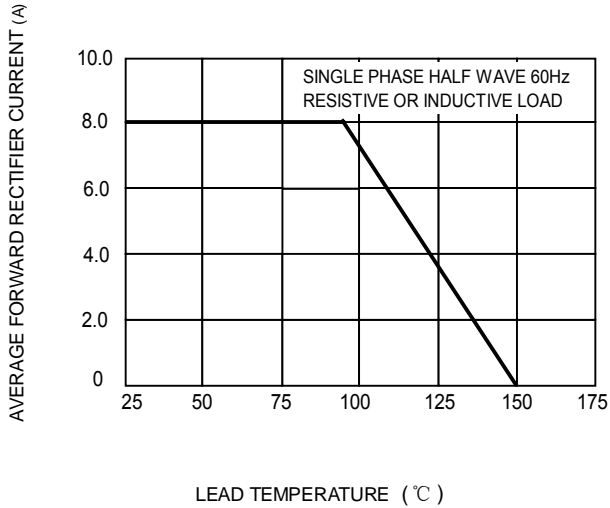


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

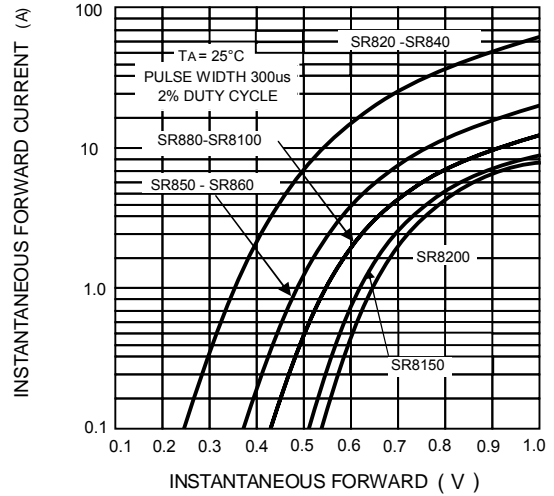


Fig. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

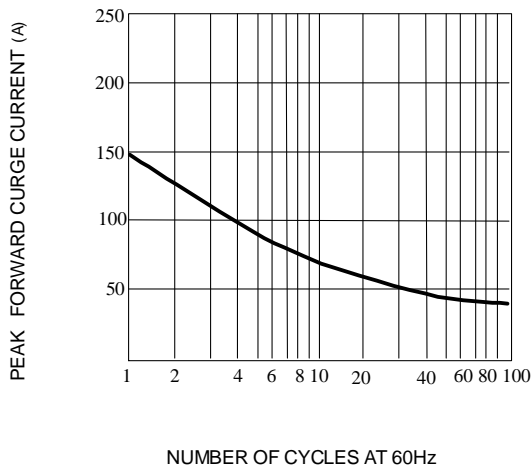


Fig. 4-TYPICAL REVERSE CHARACTERISTICS

