

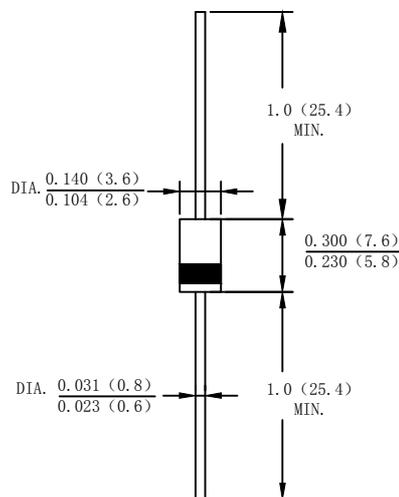
Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: Molded plastic DO-15
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any

DO-15



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 220U	SR 230U	SR 240U	SR 245U	SR 250U	SR 260U	SR 280U	SR 2100U	SR 2150U	SR 2200U	SR 2250U	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	45	50	60	80	100	150	200	250	V
Maximum RMS Voltage	V_{RMS}	14	21	26	31.5	35	42	56	70	105	140	175	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	45	50	60	80	100	150	200	250	V
Average Rectified Output Current (Note 1) @ $T_L=120^\circ\text{C}$	$I_{F(AV)}$	2.0											A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	70											A
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	20.335											A^2s
Forward Voltage @ $I_F=2.0\text{A}$	V_{FM}	0.50			0.67			0.82		0.90		0.92	V
Peak Reverse Current @ $T_A=25^\circ\text{C}$	I_R	0.1						0.05					mA
At Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$		10.0						5.0					
Typical Junction Capacitance	C_J	220					180						pF
Typical Thermal Resistance Junction to Ambient (Note 2)	$R_{\theta JA}$	75.0											$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to + 150											$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to + 150											$^\circ\text{C}$

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

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

FIG. 1 – FORWARD CURRENT DERATING CURVE

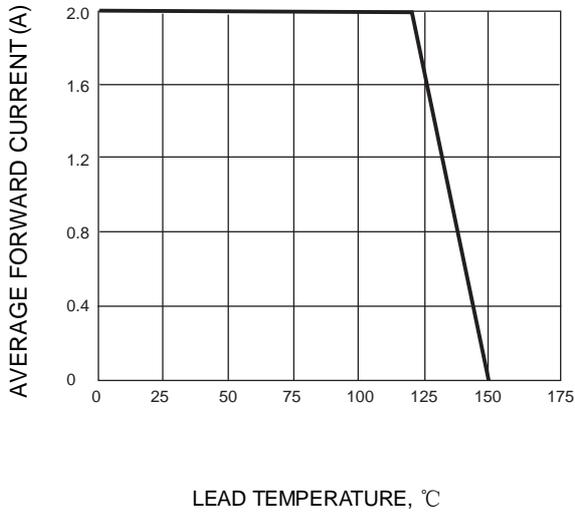


FIG.2-TYPICAL FORWARD CHARACTERISTICS

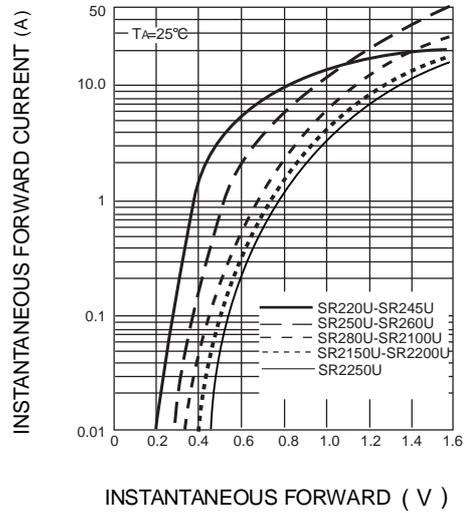


FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT

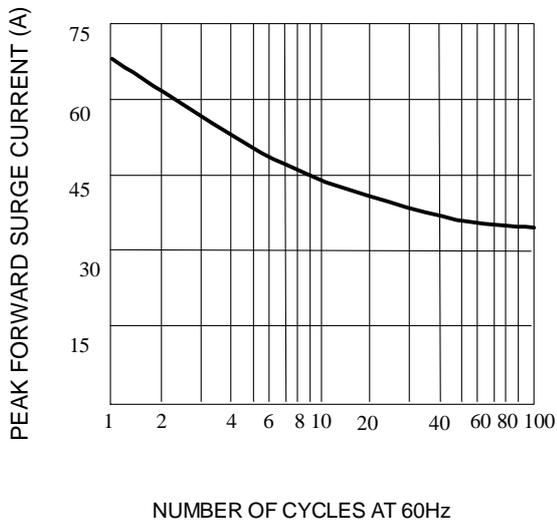
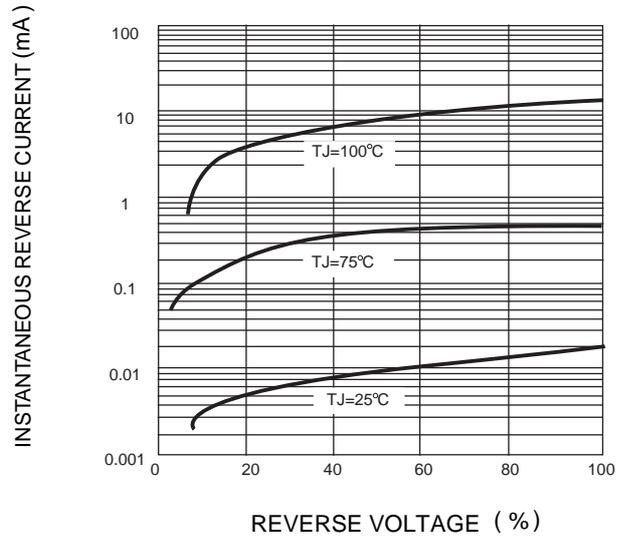


FIG. 4 – TYPICAL JUNCTION CAPACITANCE



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