

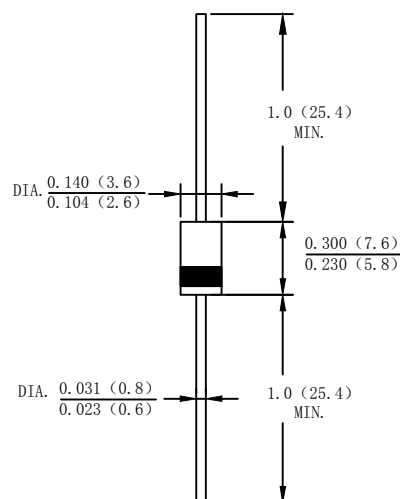
Features

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

Mechanical Data

- Case: Moeded plastic DO-15
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band dentes 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 220	SR 230	SR 240	SR 250	SR 260	SR 280	SR 2100	SR 2150	SR 2200	SR 2250	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	250	V
Maximum RMS Voltage	V_{RMS}	14	21	26	35	42	56	80	105	140	175	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	250	V
Average Rectified Output Current (Note 1) @ $T_A=75^\circ\text{C}$	I_o	2.0										A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60										A
Forward Voltage @ $I_F=2.0\text{A}$	V_{FM}	0.55			0.7		0.85		0.92		0.95	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. 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

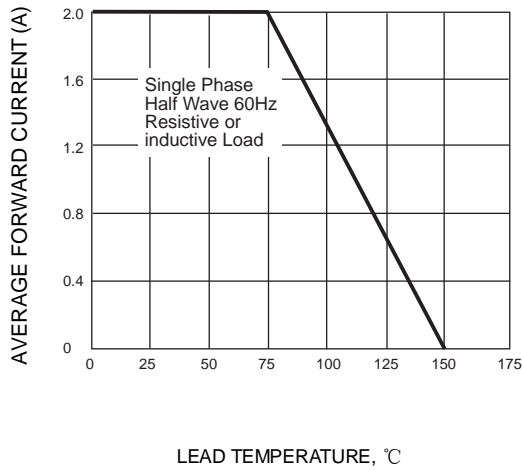


FIG.2-TYPICAL FORWARD CHARACTERISTICS

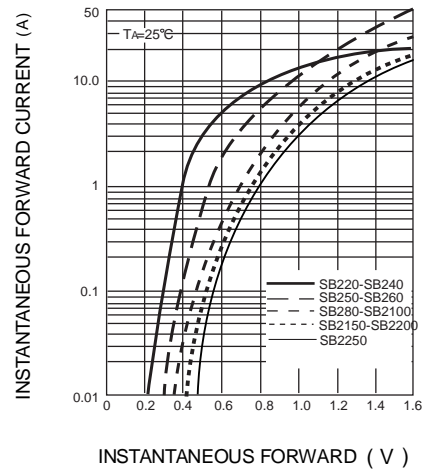


FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT

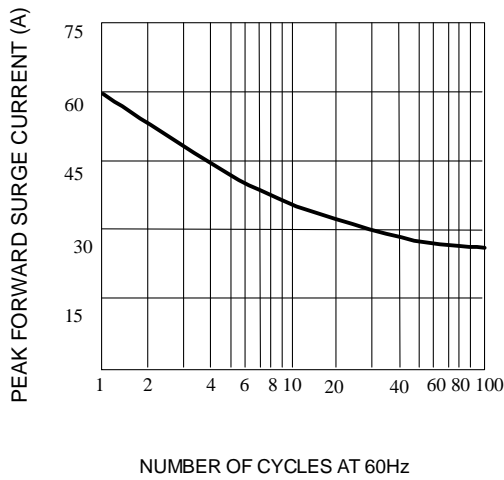


FIG. 4 – TYPICAL JUNCTION CAPACITANCE

