

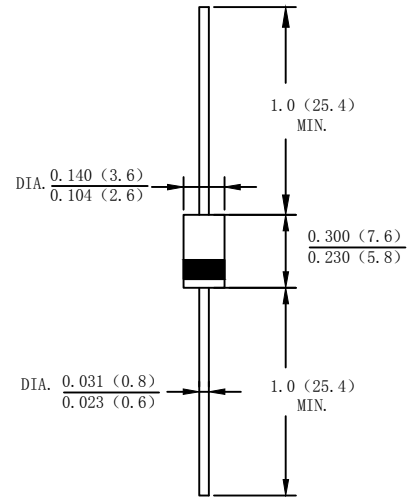
Features

- 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	SB 220U	SB 230U	SB 240U	SB 250U	SB 260U	SB 280U	SB 2100U	SB 2150U	SB 2200U	SB 2250U	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°C	I _O	2.0										A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	70										A
Forward Voltage @IF=2.0A	V _{FM}	0.50		0.67		0.82		0.90		0.92		V
Peak Reverse Current @T _A =25°C	I _R	0.1				0.05						mA
At Rated DC Blocking Voltage @T _A =100°C		10.0				5.0						
Typical Junction Capacitance	C _J	220		180								pF
Typical Thermal Resistance Junction to Ambient(Note 2)	RθJA	75.0										°C/W
Operating Temperature Range	T _J	-55 to + 150										°C
Storage Temperature Range	T _{STG}	-55 to + 150										°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

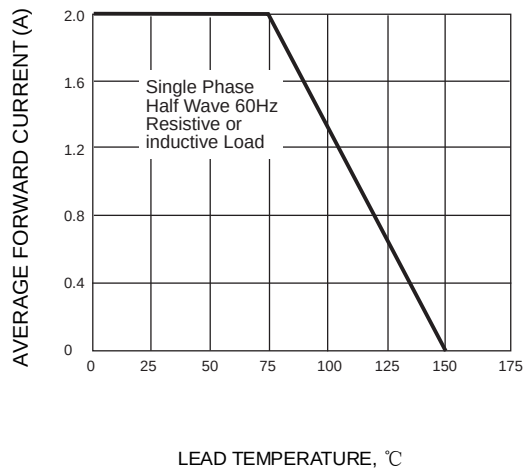


FIG.2-TYPICAL FORWARD CHARACTERISTICS

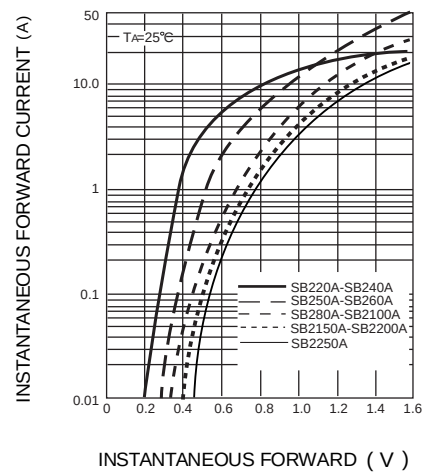


FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT

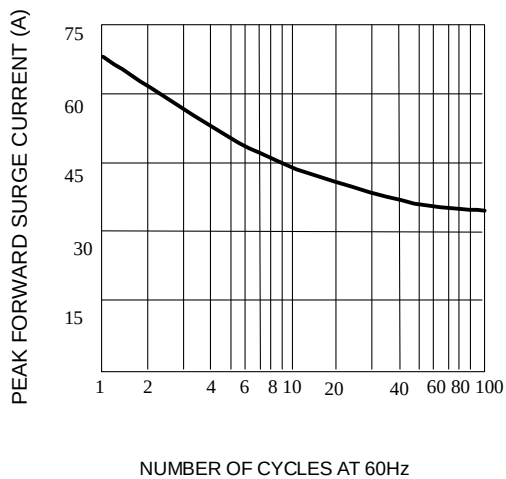


FIG. 4 – TYPICAL JUNCTION CAPACITANCE

