SB 15, 25, 35 SERIES

High Current 15, 25, 35 AMPS. Single Phase Bridge Rectifiers

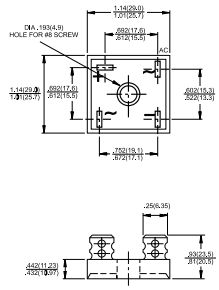


Voltage Range
50 to 1000 Volts
Current
15.0/25.0/35.0 Amperes

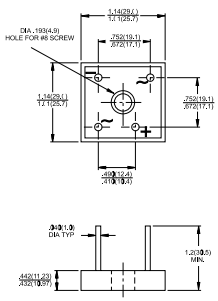
Features

- ✧ UL Recognized File # E-96005
- ✧ Metal case with an electrically isolated epoxy
- ✧ Rating to 1,000V PRV.
- ✧ High efficiency
- ✧ Mounting: thru hole for #8 screw
- ✧ High temperature soldering guaranteed: 260°C / 10 seconds at 5 lbs., (2.3 kg) tension
- ✧ Leads solderable per MIL-STD-202 Method 208
- ✧ Isolated voltage from case to lead over 2000 volts

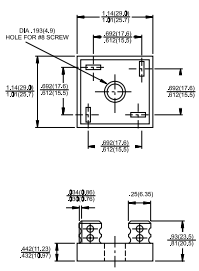
SB35



SB35-W



SB-35M



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number		-05	-1	-2	-4	-6	-8	-10	Units
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_C= 55°C	SB15 SB25 SB35	15.0 25.0 35.0							A
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	SB15 SB25 SB35	200 300 400							A
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	SB15 7.5A SB25 12.5A SB35 17.5A	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element		10							uA
Typical Thermal Resistance (Note 1) RθJC		2.0							°C/W
Operating and Storage Temperature Range T_J ,T_{STG}		- 50 to + 125 / -50 to +150							°C

Notes: 1. Thermal Resistance from Junction to Case.
2. Suffix “W” - Wire Lead Structure/”M” - Terminal Location Face to Face.

SB1505 SB1510

RATINGS AND CHARACTERISTIC CURVES (SB2505 THRU SB2510)

SB3505 SB3510

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

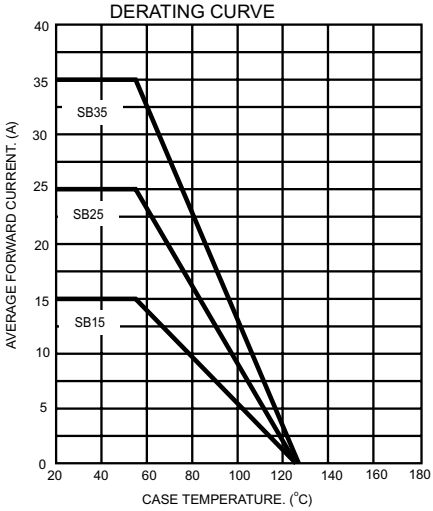


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

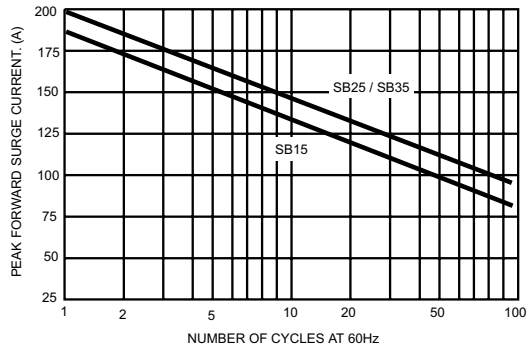


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

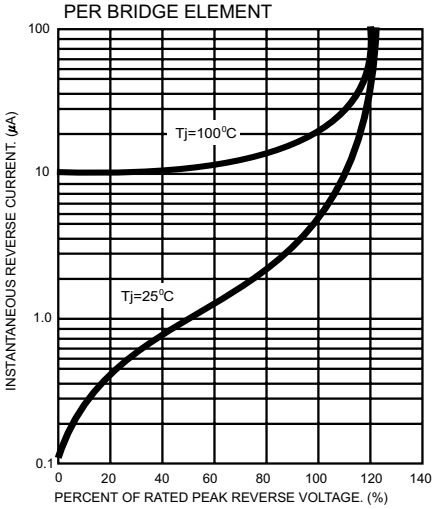


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT