TSC 5b

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

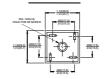
- ♦ UL Recognized File # E-96005
- Metal case with an electrically isolated epoxy
- ♦ Rating to 1,000V PRV.
- ♦ High efficiency
- ♦ Mounting: thru hole for #8 screw
- → High temperature soldering guaranteed: 260°C / 10 seconds at 5 lbs., (2.3 kg) tension
- Leads solderable per MIL-STD-202 Method 208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

SB35











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%

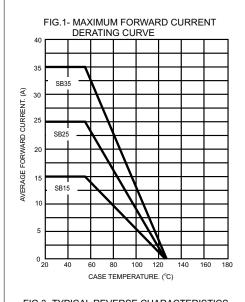
Type Number			Symbol	-05	-1	-2	-4	-6	-8	-10	Units
Maximum Recurrent Peak Reverse Voltage			V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage			V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage			V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T _C = 55°C	SB15 SB25 SB35		I _(AV)	15.0 25.0 35.0						Α	
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	SB15 SB25 SB35		I _{FSM}	200 300 400						Α	
Voltage Drop Per Element	SB25	7.5A 12.5A 17.5A	V _F	1.1						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element			I _R	10							uA
Typical Thermal Resistance (Note 1)			$R heta_{JC}$	2.0							°CW
Operating and Storage Temperature Range			T_J , T_{STG}	- 50 to + 125 / -50 to +150							${\mathfrak C}$

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



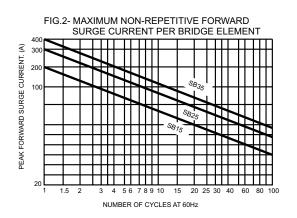


FIG.3- TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT

100

Tj=100°C

Tj=25°C

100

0.1

0.20

40

0.60

80

100

120

140

PERCENT OF RATED PEAK REVERSE VOLTAGE. (%)

