**TSC 9b** 

# D2SB05 THRU D2SB80

Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range 50 to 800 Volts Current 1.5 Amperes

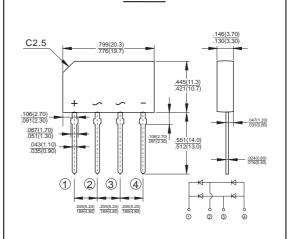
GBL

## **Features**

- ♦ Glass passivated chip junction
- ♦ Ideal for printed circuit board
- ♦ High case dielectric strength
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- → Typical IR less than 0.1µA
- ♦ High surge current capability
- High temperature soldering guaranteed: 260°C / 10 seconds / .375", (9.5mm) lead lengths.

#### **Mechanical Data**

- Case: Molded plastic body.
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026.
- ♦ Weight: 0. 071 ounce, 2.0 grams
- ♦ Mounting position: Any



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.

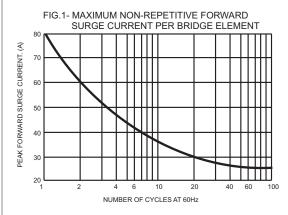
For capacitive load, derate current by 20%

Type Number	Symbol	D2SB	D2SB	D2SB	D2SB	D2SB	D2SB	Units
		05	10	20	40	60	80	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	V
Maximum Average Forward Rectified Current $@T_A = 50^{\circ}C$	I <sub>(AV)</sub>	1.5						Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	80						А
Maximum Instantaneous Forward Voltage @ 0.75A	$V_{F}$	1.05						>
Maximum DC Reverse Current @ T <sub>A</sub> =25°C	$I_R$	10.0						uA
at Rated DC Blocking Voltage @ T <sub>A</sub> =125℃	iК	500						uA
Typical Thermal Resistance Per Leg (Note)	$R\theta_{JA}$	47.0						°C/W
	$R heta_{JL}$			10	0.0			
Operating Temperature Range	TJ	-55 to +150						$^{\circ}$
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150						Ç

Notes 1: Units Mounted In Free Air No Heat Sink On PCB 0.4" x 0.4 " (10mm x 10mm) Copper Pads, 0.375"(9.5mm) Lead Length.



## RATINGS AND CHARACTERISTIC CURVES (D2SB05 THRU D2SB80)



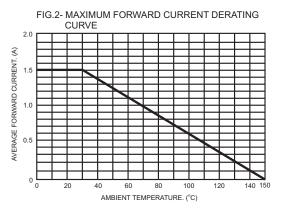


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

