



SHANGHAI SUNRISE ELECTRONICS CO., LTD.

D5SB10 THRU D5SB80

SINGLE PHASE GLASS

PASSIVATED SIP BRIDGE RECTIFIER

VOLTAGE: 100 TO 800V CURRENT: 6.0A

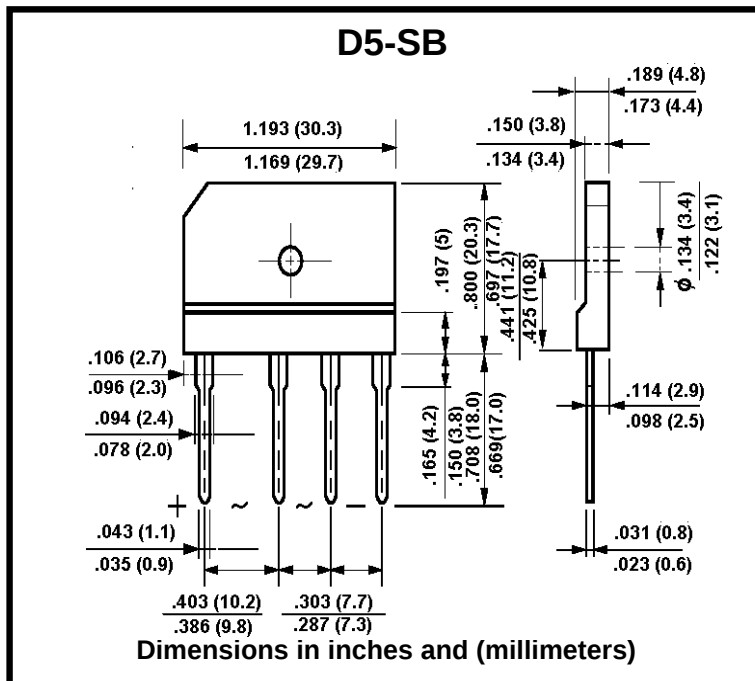
TECHNICAL
SPECIFICATION

FEATURES

- Glass passivated junction chip
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating: 150 A peak
- High temperature soldering guaranteed: 250°C/10sec/ 0.575" (9.5mm) lead length at 5 lbs tension

MECHANICAL DATA

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: UL-94 Class V-O recognized flame retardant epoxy
- Polarity: Polarity symbol marked on body
- Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	D5SB 10	D5SB 20	D5SB 40	D5SB 60	D5SB 80	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	V
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	V
Maximum Average Forward Rectified Current ($T_a=50^\circ\text{C}$)	$I_{F(AV)}$	6.0					A
Peak Forward Surge Current (8.5ms single half sine-wave superimposed on rated load)	I_{FSM}	150					A
Maximum Instantaneous Forward Voltage (at forward current 3.0A DC)	V_F	1.1					V
Maximum DC Reverse Current (at rated DC blocking voltage)	I_R	$T_a=25^\circ\text{C}$ 5 $T_a=125^\circ\text{C}$ 500					μA μA
Storage and Operating Junction Temperature	T_{STG}, T_J	-55 to + 150					$^\circ\text{C}$