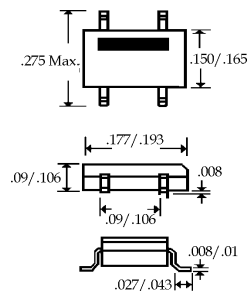


Description



MiniDip

Mechanical Dimensions



(Dimensions in inches)

Features

- * COMPACT SIZE
- * LOW LEAKAGE CURRENT
- * 30 AMP SURGE OVERLOAD RATING

- * EXCEEDS ENVIRONMENTAL STANDARDS OF MIL STD. 19500
- * MEETS UL SPECIFICATION 94V-0
- * GLASS PASSIVATED JUNCTIONS

Electrical Characteristics @ 25°C.	D1S . . . D12S Series							Units
Maximum Ratings	D1S	D2S	D4S	D6S	D8S	D10S	D12S	
Peak Repetitive Reverse Voltage... V_{RRM}	100	200	400	600	800	1000	1200	Volts
RMS Reverse Voltage... $V_{R(rms)}$	70	140	280	420	560	700	840	Volts
DC Blocking Voltage... V_{DC}	100	200	400	600	800	1000	1200	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 40^\circ\text{C}$	0.8							Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3 mS Single ½ Sine Wave Imposed on Rated Load	30							Amps
Point Rating for Fusing...(T < 8.3 mS)	10							A ² S
Forward Voltage... V_F Bridge Element @ 0.4 Amp	1.0 1.1							Volts
DC Reverse Current... I_R @ Rated DC Blocking Voltage	5.0 0.5							µA mA
Typical Junction Capacitance per leg(1)... C_j	25.0							pF
Typical Thermal Resistance per leg(2) $R_{\theta JA}$ $R_{\theta JL}$	85.0 20.0							°C/W
Operating and Storage Temperature Range... T_J , T_{STRG}	-55 to 150							°C

0.8 Amp Glass Passivated Single Phase Silicon Bridge

Fig. 1 Max. Non-Repetitive Surge Current

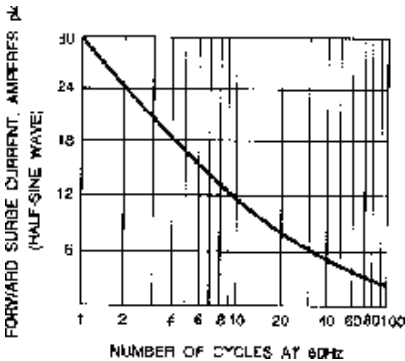


Fig. 2 Derating Curve for Output Rectified Current

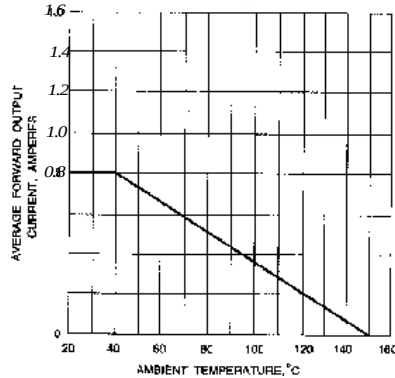


Fig. 3 Typical Forward Characteristics

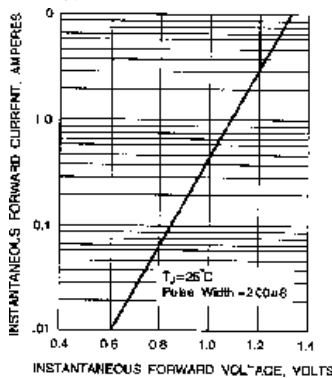
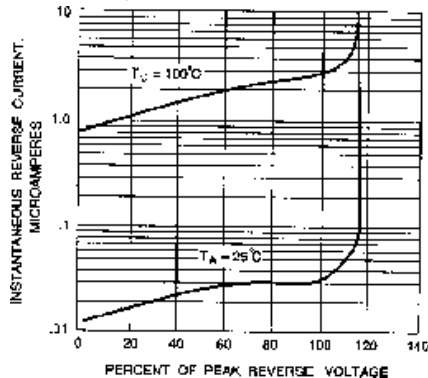


Fig. 4 Typical Reverse Characteristics



Ratings at
25 Deg. C ambient
temperature
unless otherwise
specified.

Single Phase Half
Wave, 60 HZ
Resistive or
Inductive Load.

For Capacitive
Load, Derate
Current by 20%.

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts.
2. Thermal resistance from junction to ambient and junction to lead mounted on PCB with 0.5" x 0.5" copper pads.