



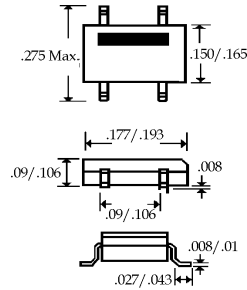
D1S . . . D12S Series

Description



MiniDip

Mechanical Dimensions



(Dimensions in inches)

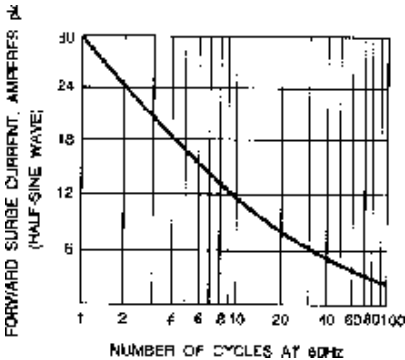
Features

- \* 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

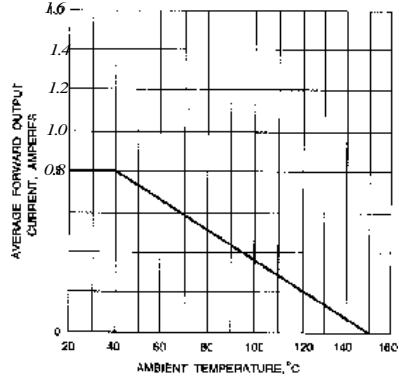
Electrical Characteristics @ 25°C.	D1S . . . D12S Series							Units
Maximum Ratings	D1S	D2S	D4S	D6S	D8S	D10S	D12S	
Peak Repetitive Reverse Voltage... $V_{RRM}$	100	200	400	600	800	1000	1200	Volts
RMS Reverse Voltage... $V_{R(rms)}$	70	140	280	420	560	700	840	Volts
DC Blocking Voltage... $V_{DC}$	100	200	400	600	800	1000	1200	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 40^\circ C$	0.8							Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ 8.3 ms Single 1/2 Sine Wave Imposed on Rated Load	30							Amps
Point Rating for Fusing...(T < 8.3 ms)	10							A <sup>2</sup> S
Forward Voltage... $V_F$ Bridge Element @ 0.4 Amp	1.0 ..... 1.1							Volts
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage								$\mu A$ mA
	$T_J = 25^\circ C$ ..... 5.0							
	$T_J = 125^\circ C$ ..... 0.5							
Typical Junction Capacitance per leg(1)... $C_j$	25.0							pF
Typical Thermal Resistance per leg(2) $R_{\theta JA}$	85.0							$^\circ C/W$
	$R_{\theta JL}$ ..... 20.0							
Operating and Storage Temperature Range... $T_J, T_{STRG}$	-55 to 150							$^\circ C$

# 0.8 Amp Glass Passivated Single Phase Silicon Bridge

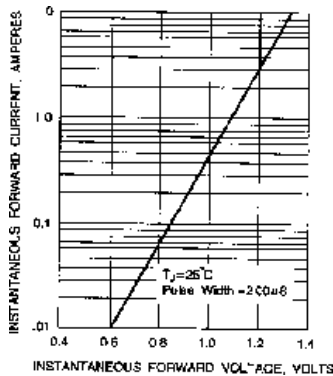
**Fig. 1 Max. Non-Repetitive Surge Current**



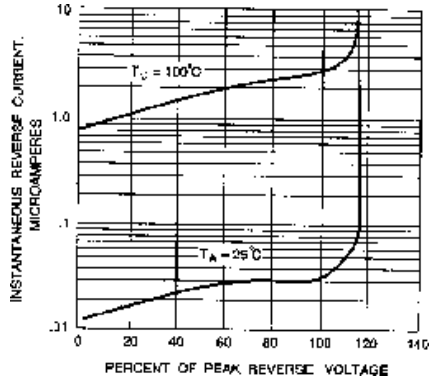
**Fig. 2 Derating Curve for Output Rectified Current**



**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.