

Bridge Rectifier

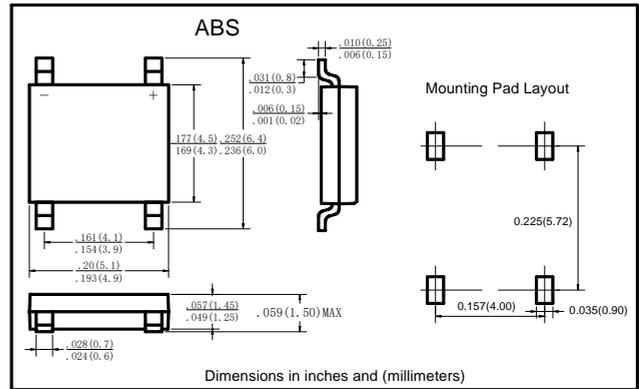
■ Features

- I_o 2A
- V_{RRM} 200V~1000V
- Glass passivated chip
- High surge forward current capability

■ Applications

- General purpose 1 phase Bridge rectifier applications

■ Outline Dimensions and Mark



■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	ABS2				
				02	04	06	08	10
Repetitive Peak Reverse Voltage	V_{RRM}	V		200	400	600	800	1000
Average Rectified Output Current	I_o	A	60Hz sine wave, R-load, $T_c=115^\circ\text{C}$	On alumina substrate		2.0		
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, $T_j=25^\circ\text{C}$	50				
Storage Temperature	T_{stg}	$^\circ\text{C}$		-55 ~+150				
Junction Temperature	T_j	$^\circ\text{C}$		-55 ~+150				

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=1.0A$, Pulse measurement, Rating of per diode	1.0
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode $T_a=25^\circ\text{C}$ $T_a=125^\circ\text{C}$	5 500
热阻 Thermal Resistance	$R_{\theta J-A}$	$^\circ\text{C/W}$	Between junction and ambient, On alumina substrate	60
	$R_{\theta J-L}$		Between junction and lead	16



Ratings and Characteristic Curves

Fig.1 Average Rectified Output Current Derating Curve

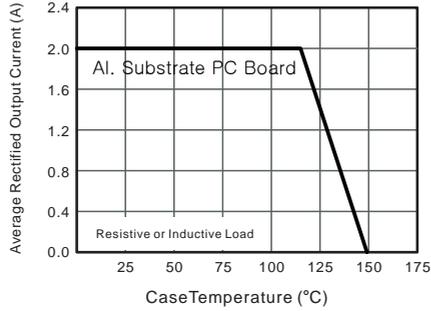


Fig.2 Typical Reverse Characteristics

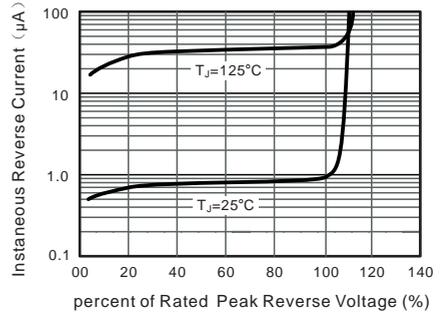


Fig.3 Typical Instantaneous Forward Characteristics

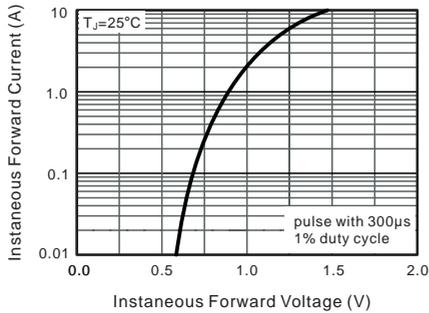


Fig.4 Typical Junction Capacitance

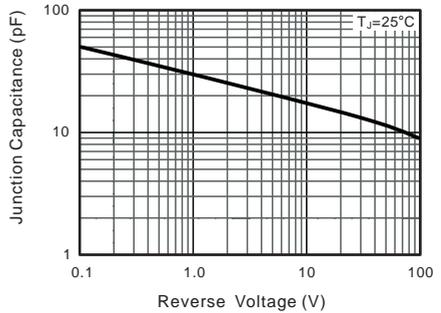


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

