

Glass Passivated Bridge Rectifier

Feature

- Glass Passivated Chip Juntion
- Reverse Voltage 100 to 1000 V
- Forward Current 2 A
- High Surge Current Capability
- Designed for Surface Mount Application

Maximum Ratings and Electrical characteristics

Single-phase, half-wave, 60 Hz, resistive or inductive load .

For capacitive load, derate current by 20%.

Parameter	Symbol	ABS 201	ABS 202	ABS 204	ABS 206	ABS 208	ABS 210	Units
Maximum Repetitive Peak Reverse Voltage Maximum DC Blocking Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{R(RMS)}	70	140	280	420	560	700	V
Averager Rectified Output Current at Ta=40°C	I _O	2.0				А		
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50				А		
Maximum DC Reverse Current @T=2.0A at Rated DC Blocking Voltage @T=125A	V _F	1.0				V		
$\begin{array}{ccc} \text{Peak Reverse Current} & & T_{A=}25^{\circ}\text{C} \\ \text{at Rated DC Blocking Voltage} & & T_{A=}125^{\circ}\text{C} \end{array}$	I _R	5.0 500				μΑ		
Typical Junction Capacitance (Note1)	Cj	25			pF			
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	80			°C/W			
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150				င		

Note:

- 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2. Mounted on glass epoxy PC board with 4×2.54mm² copper pad.

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Typical Characteristics

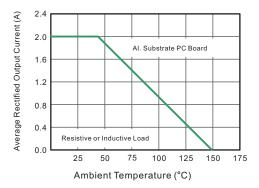


Fig.1 Average Rectified Output Current Derating Curve

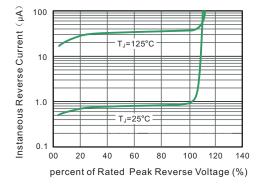


Fig.2 Typical Reverse Characteristics

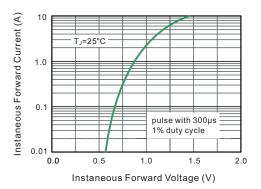


Fig.3 Typical Instaneous Forward Characteristics

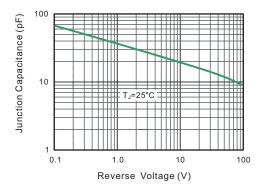


Fig.4 Typical Junction Capacitance

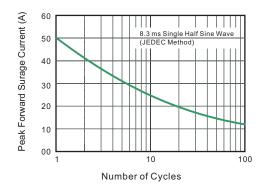
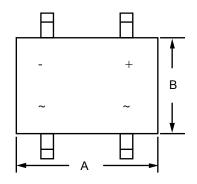
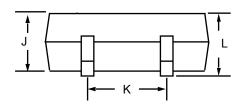
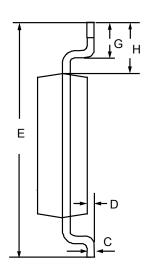


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

Product dimension (ABS)







Dimension	Millimeters						
Difficusion	MIN	MAX					
Α	4.90	5.30					
В	4.30	4.80					
С	0.15	0.25					
D	0.05	0.15					
Е	6.00	6.40					
G	0.30	0.80					
Н	0.80	1.20					
J	1.20	1.40					
K	3.80	4.20					
	<u></u>	1.50					

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