

BR6005 THRU BR610

Silicon Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Amperes

Features

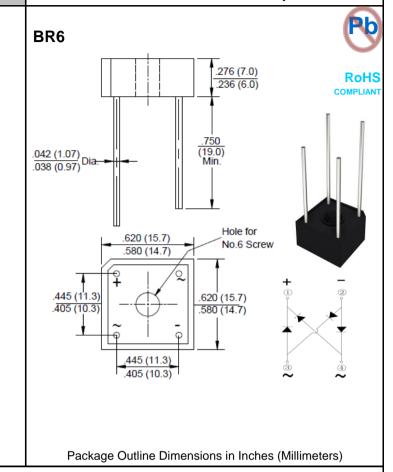
- Low forward voltage drop
- High surge forward current capability
- Small size, simple installation

Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

Applications

 General purpose use in AC/DC bridge full wave rectification, for power supply, industrial automation applications, etc.



Maximum Ratings and Electrical Characteristics

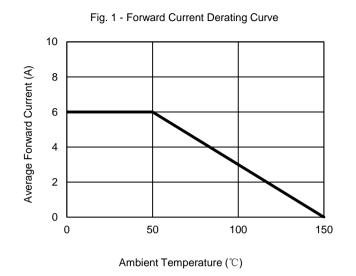
Rating at 25 ℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Characteristics	Symbol	BR6005	BR601	BR602	BR604	BR606	BR608	BR610	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current @Ta=50 $^{\circ}$ C	I(AV)	6.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	175							Α
I ² t Rating for Fusing (t<8.3mS)	l ² t	127.1						A ² s	
Peak Forward Voltage per Diode at 3A DC	VF	1.0						V	
Maximum DC Reverse Current at Rated @TJ=25°C	IR 10.0							μΑ	
DC Blocking Voltage per Diode @TJ=100℃	IK	1.0							mA
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

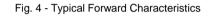


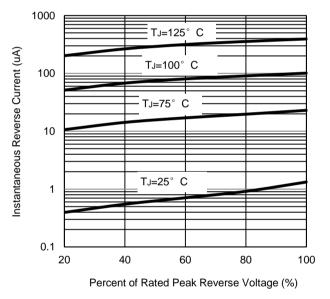


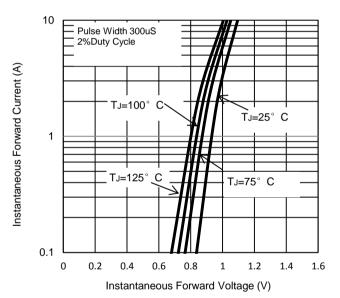
200
180
8.3mS Single Half-Sine-Wave
(JEDEC METOD)
140
120
80
60
40
20
0
1 100
Number of Cycles at 60Hz

Fig. 2 - Maximum Non-Repetitive Surge Current

Fig. 3 - Typical Reverse Characteristics









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