BR10005 THRU BR1010

Silicon Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 10 Amperes

Features

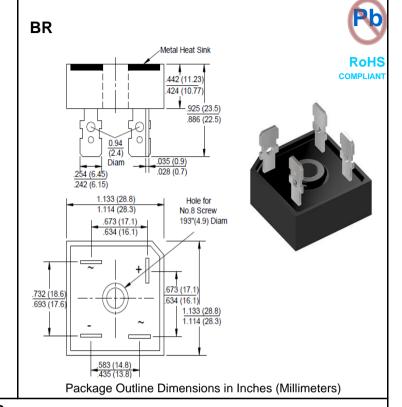
- Low forward voltage drop
- Electrically isolated base -2000 Volts
- High surge forward current capability
- Materials used carries U/L recognition

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

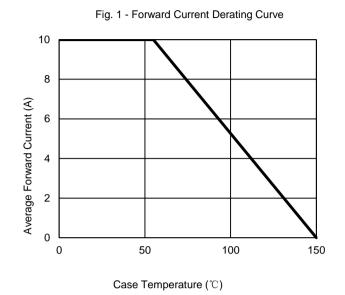
Rating at 25℃ ambient temperature unless otherwise specified.

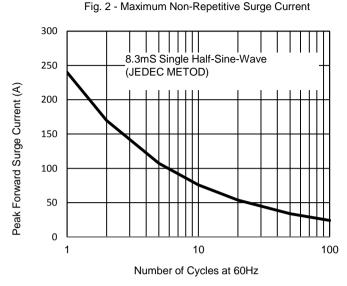
Single phase, half wave, 60Hz, resistive or inductive load.

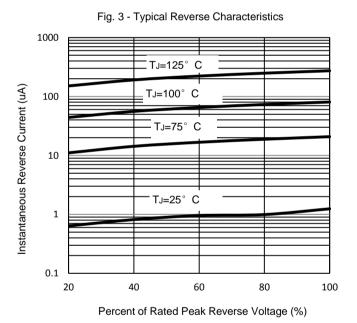
For capacitive load, derate current by 20%.

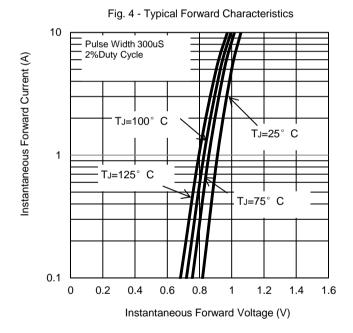
Characteristics	Symbol	BR	BR	BR	BR	BR	BR	BR	Unit
		10005	1001	1002	1004	1006	1008	1010	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current @Tc=55 ℃	I(AV)	10							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM 240							А	
Superimposed on Rated Load (JEDEC Method)	IFSIVI	240							
I ² t Rating for Fusing (t<8.3mS)	l ² t	240							A ² s
Peak Forward Voltage per Diode at 5.0A DC	VF	1.1							V
Maximum DC Reverse Current at Rated	In.			10					
DC Blocking Voltage per Diode @TJ=25°C	IK IK	IR 10							μΑ
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150						$^{\circ}$	













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