

BR35005 THRU BR3510

RoHS

COMPLIAN

Silicon Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts

Features

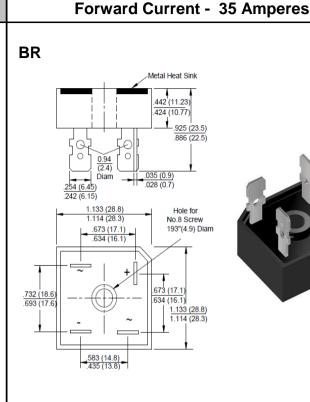
- Low forward voltage drop
- Electrically isolated base -2000 Volts
- High surge forward current capability
- Materials used carries U/L recognition

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.



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

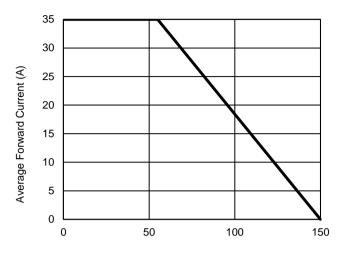
For capacitive load, derate current by 20%.

Characteristics	Symbol	BR	BR	BR	BR	BR	BR	BR	Unit
		35005	3501	3502	3504	3506	3508	3510	
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 °C	l(AV)	35							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM						А		
Superimposed on Rated Load (JEDEC Method)	IF SIVI	400							А
I ² t Rating for Fusing (t<8.3mS)	l ² t	664							A ² s
Peak Forward Voltage per Diode at 17.5A DC	VF	1.1							V
Maximum DC Reverse Current at Rated	In	10							μΑ
DC Blocking Voltage per Diode @TJ=25°C	IK								
Operating Junction Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Tstg	-55 to +150							°C
DC Blocking Voltage per Diode @Tj=25°C Operating Junction Temperature Range		-55 to +150						-	

Rating and Characteristic Curves BR35005 THRU BR3510

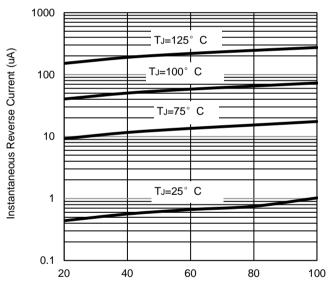


Fig. 1 - Forward Current Derating Curve



Case Temperature (°C)





Percent of Rated Peak Reverse Voltage (%)

Fig. 2 - Maximum Non-Repetitive Surge Current

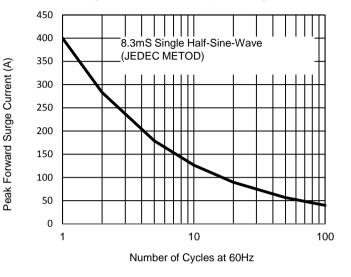
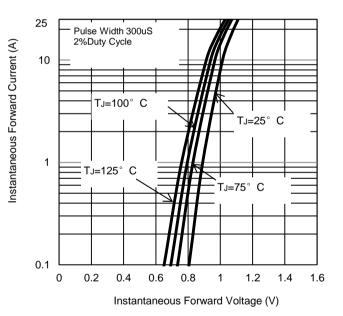


Fig. 4 - Typical Forward Characteristics





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