

# BR35005W THRU BR3510W

## Silicon Bridge Rectifiers

#### Features

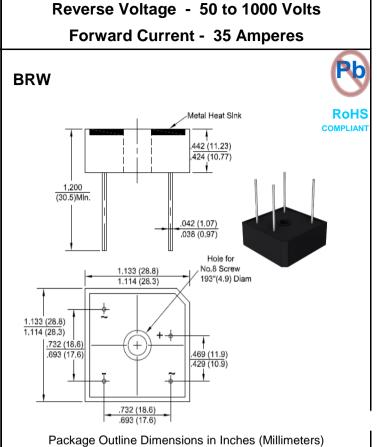
- Low forward voltage drop
- Electrically isolated base -2000 Volts
- High surge forward current capability
- Materials used carries U/L recognition

### **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°C ambient temperature unless otherwise specified.

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

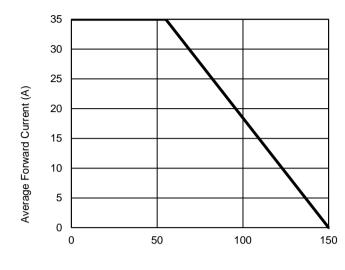
For capacitive load, derate current by 20%.

Characteristics	Symbol	BR	BR	BR	BR	BR	BR	BR	Unit
		35005W	3501W	3502W	3504W	3506W	3508W	3510W	
mum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
mum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
mum Average Forward Rectified Current @Tc=55 °C	l(AV)	35							А
Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	400							А
erimposed on Rated Load (JEDEC Method)	TFSIM								
ating for Fusing (t<8.3mS)	l <sup>2</sup> t	664							A <sup>2</sup> s
Forward Voltage per Diode at 17.5A DC	VF	1.1							V
mum DC Reverse Current at Rated	In	10							μΑ
Blocking Voltage per Diode @Tj=25 $^\circ\!\!\mathbb{C}$	IR								
rating Junction Temperature Range	TJ	-55 to +150							°C
age Temperature Range	Tstg	-55 to +150							°C
rating Junction Temperature Range	-	-55 to +150							



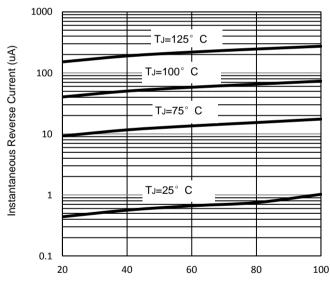
Fig. 1 - Forward Current Derating Curve

Fig. 2 - Maximum Non-Repetitive Surge Current



Case Temperature (℃)

Fig. 3 - Typical Reverse Characteristics



Percent of Rated Peak Reverse Voltage (%)

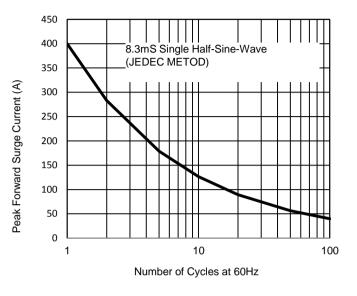
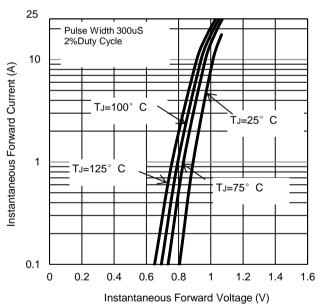


Fig. 4 - Typical Forward Characteristics





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