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BR15005G THRU BR1510G

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts

Forward Current - 15 Amperes

Features

- Glass passivated chip
- Low forward voltage drop

Mechanical Data

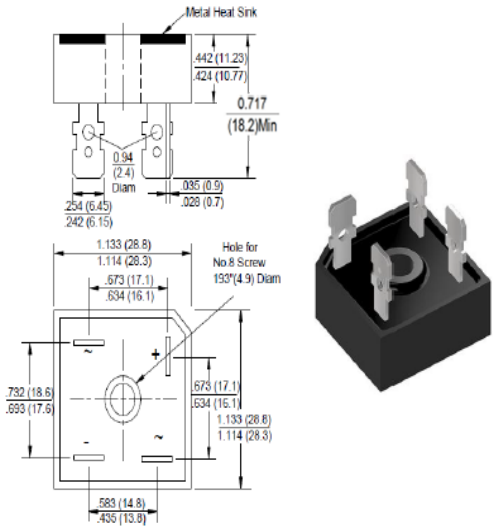
- Polarity: Symbol marked on body
- Mounting position: Any

Note: Products with logo HY or hy are made by HY Electronic (Cayman) Limited.

Applications

- General purpose use in AC/DC bridge full wave rectification, for home appliances, office equipment, etc.

BRG



Package Outline Dimensions in Inches (Millimeters)

RoHS COMPLIANT

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 15005G	BR 1501G	BR 1502G	BR 1504G	BR 1506G	BR 1508G	BR 1510G	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current @T_C=55 ℃	$I_{(AV)}$	15							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I_{FSM}	300							A
I^2t Rating for Fusing (t<8.3mS)	I^2t	508.4							A^2s
Peak Forward Voltage per Diode at 12.5A DC	V_F	1.1							V
Maximum DC Reverse Current at Rated @T_J=25℃	I_R	5.0							μA
DC Blocking Voltage per Diode @T_J=125℃		500							
Operating Junction Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Fig. 1 - Forward Current Derating Curve

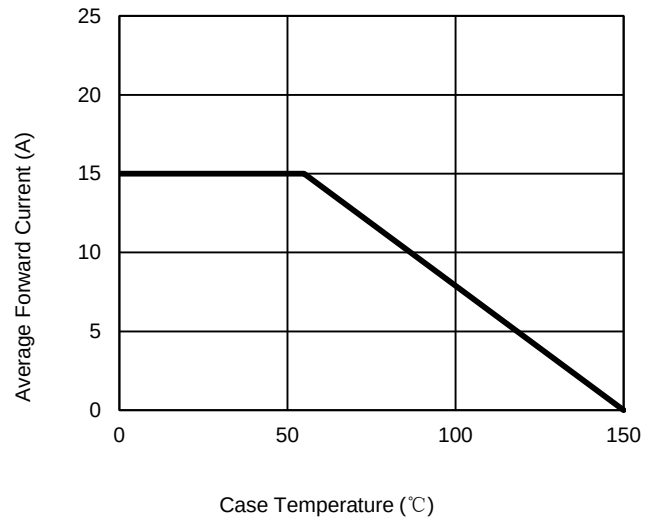


Fig. 2 - Maximum Non-Repetitive Surge Current

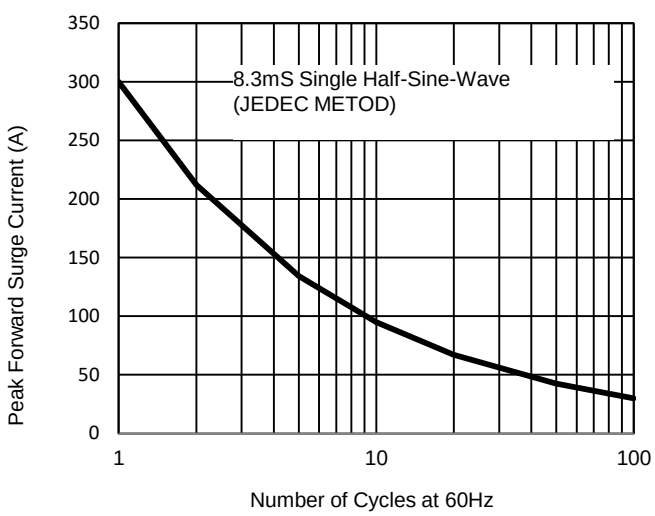


Fig. 3 - Typical Reverse Characteristics

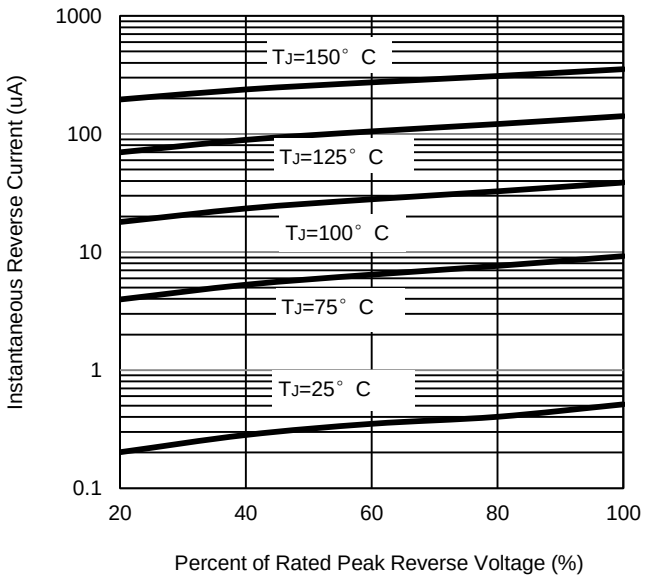
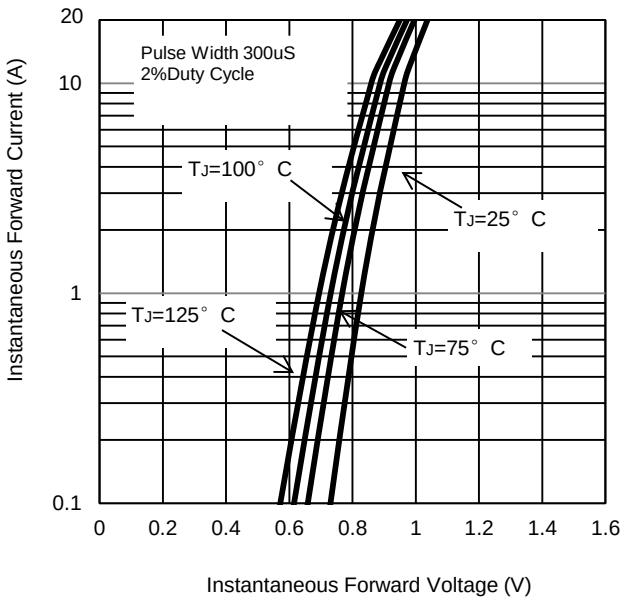


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.

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