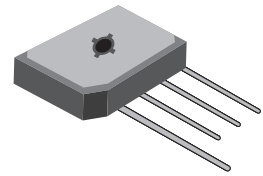


BR5005L-G Thru. BR5010L-G

Reverse Voltage: 50 to 1000V

Forward Current: 50A

RoHS Device

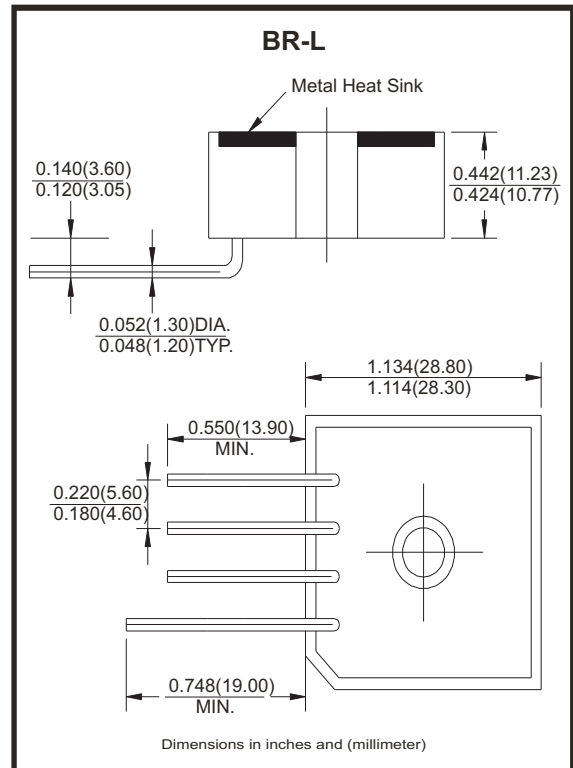


Features

- Plastic case with heatsink for heat dissipation.
- Surge overload -500 Amperes peak.

Mechanical Data

- Epoxy: U/L 94-V0 rate flame retardant.
- Case: Molded plastic with heatsink integrally, mounted in the bridge encapsulation.
- Mounting position: Any
- Weight: 30grams
- Terminals: Wire lead Ø 50mils.



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%

Parameter	Symbol	BR5005L -G	BR501L -G	BR502L -G	BR504L -G	BR506L -G	BR508L -G	BR5010L -G	Unit
Maximum Peak Recurrent Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current for Resistive Load @ $T_c=55^{\circ}C$	$I_{(AV)}$	50							A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load	I_{FSM}	500							A
Maximum Forward Voltage Per Bridge Element at 25A Peak	V_F	1.1							V
Maximum Reverse Current at Rate DC Blocking Voltage	I_R	@ $T_J=25^{\circ}C$							μA
		@ $T_J=100^{\circ}C$							
Typical Thermal Resistance (FIG.3)	$R_{\theta JC}$	2.0							$^{\circ}C/W$
Operating Temperature Range	T_J	-55 to +150							$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}C$

Rating and Characteristics Curves (BR5005L-G Thru. BR5010L-G)

Fig.1- Derating Curve Output Rectified Current

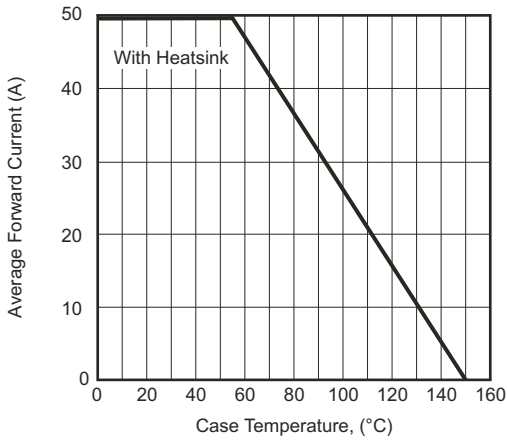


Fig.2 Maximum Forward Surge Current

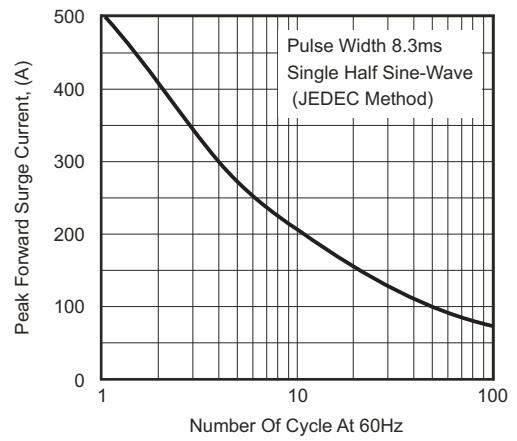


Fig.3- Typical Forward Characteristics

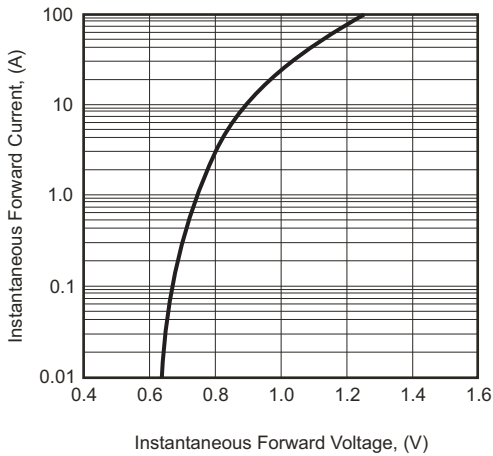
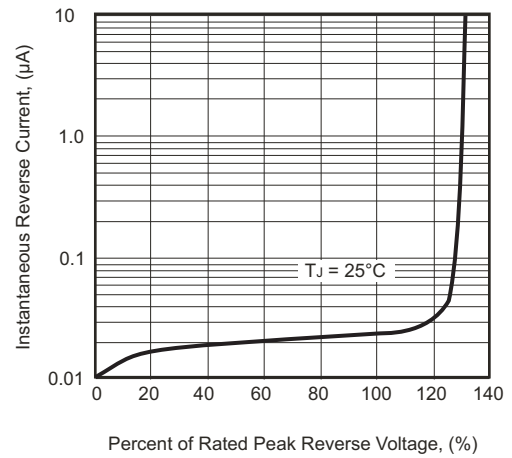
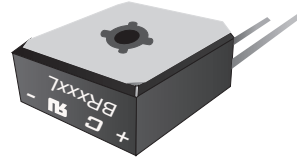


Fig.4- Typical Reverse Characteristics



Marking Code

Part Number	Marking code
BR5005L-G	BR5005L
BR501L-G	BR501L
BR502L-G	BR502L
BR504L-G	BR504L
BR506L-G	BR506L
BR508L-G	BR508L
BR5010L-G	BR5010L



XXX / XXXX = Product type marking code

Standard Package

Case Type	BULK PACK		
	Box (EA)	Box / Carton (EA)	CARTON (EA)
KBU	400	6	2400