

BR25005-G Thru. BR5010-G Series

Reverse Voltage: 50 to 1000V

Forward Current: 25/50A

RoHS Device

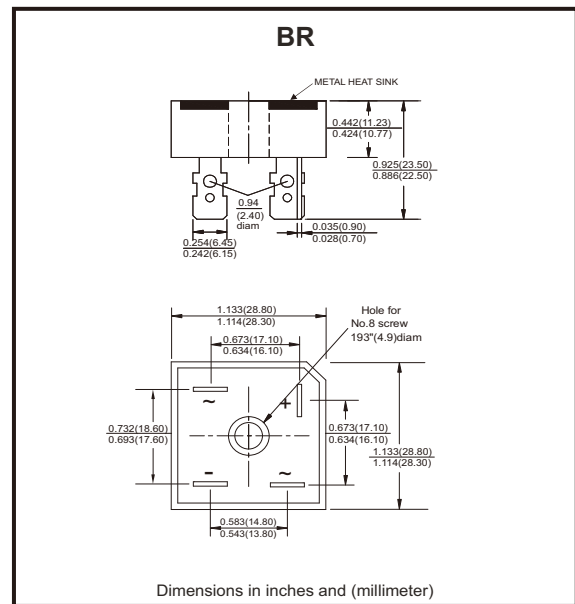


Features

- Surge overload -400~500 Amperes peak.
- Low forward voltage drop.
- Electrically isolated base -2000 Volts.
- Materials used carries UL recognition.
- Solderable 0.25" FAST ON terminals.
- UL recognized file # E349301 

Mechanical Data

- Polarity: As marked on body.
- Mounting position: Any.
- Weight: 19.09 grams (approx.).



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	BR-G	BR-G	BR-G	BR-G	BR-G	BR-G	BR-G	Unit
		25005	2501	2502	2504	2506	2508	2510	
		50005	5001	5002	5004	5006	5008	5010	
Max. recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	V_{RRM}	35	70	140	280	420	560	700	V

Parameter	Symbol	BR25	BR50	Unit
Maximum average forward rectified output current @Tc=55°C	I_{AV}	25	50	A
Peak forward surge current, 8.3ms single half sine-wave, superimposed on rated load	I_{FSM}	400	500	A
Maximum forward voltage drop per element at 12.5/25.0A peak	V_F	1.1		V
Maximum reverse current at rated DC blocking voltage per element @ Tj=25°C	I_R	10.0		μA
Operating temperature range	T_J	-55 to +150		°C
Storage temperature range	T_{STG}	-55 to +150		°C

Rating and Characteristics Curves (BR25005-G Thru. BR5010-G Series)

Fig.1 - Derating Curve Output Rectified Current

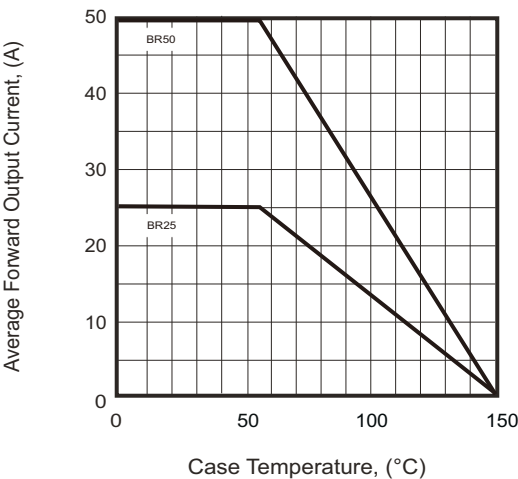


Fig.2 - Typical Forward Characteristics

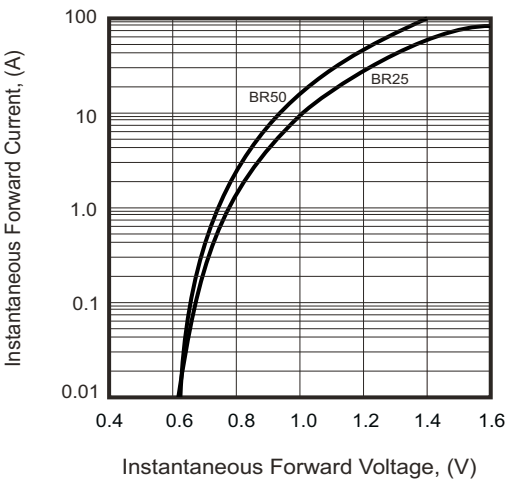


Fig.3 - Max. Forward Surge Current

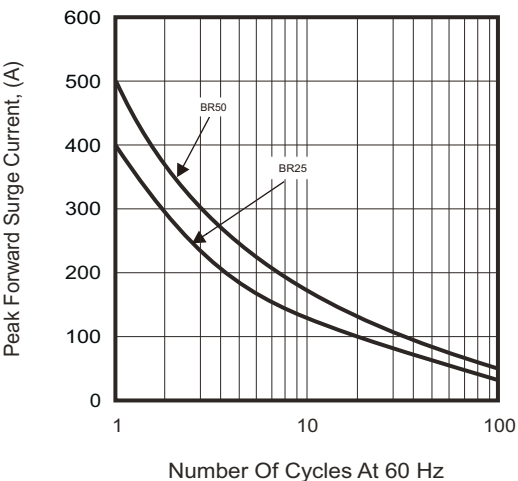
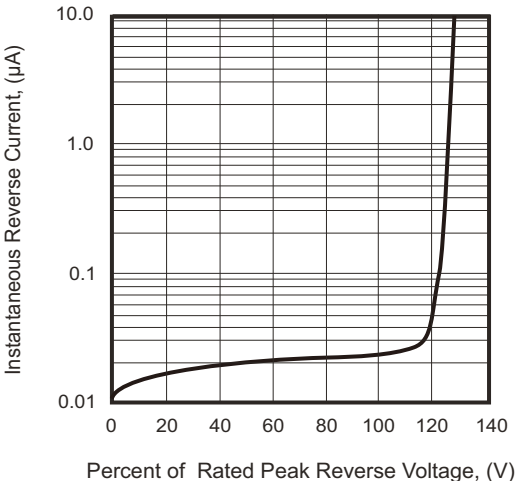
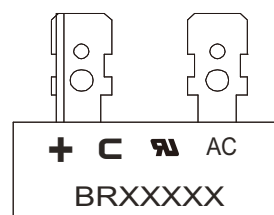


Fig.4 - Typical Reverse Characteristics



Marking Code

Part Number	Marking code
BR25005-G BR50005-G	BR25005 BR50005
BR2501-G BR5001-G	BR2501 BR5001
BR2502-G BR5002-G	BR2502 BR5002
BR2504-G BR5004-G	BR2504 BR5004
BR2506-G BR5006-G	BR2506 BR5006
BR2508-G BR5008-G	BR2508 BR5008
BR2510-G BR5010-G	BR2510 BR5010



XXXXX / XXXX = Product type marking code

C = Comchip Logo

Standard Packaging

Case Type	BULK PACK	
	BOX (pcs)	CARTON (pcs)
BR	50	500