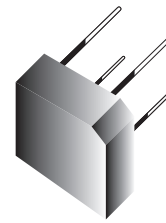


## BR3005-G Thru. BR310-G

Reverse Voltage: 50 to 1000V

Forward Current: 3.0A

RoHS Device

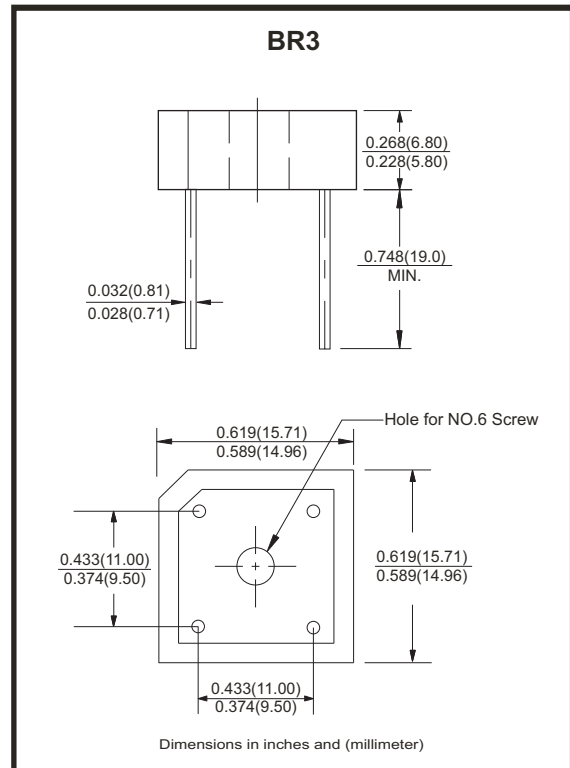


### Features

- Low forward voltage drop.
- Small size ; simple installation.
- Tinned copper leads.
- Surge overload rating -40 amperes peak.
- Materials used carries U/L recognition.

### Mechanical Data

- Polarity: As marked on Body
- Mounting position: Any
- Weight: 2.65 grams



### 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	BR3005-G	BR301-G	BR302-G	BR304-G	BR306-G	BR308-G	BR310-G	Unit
Maximum Recurrent Peak 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 Average Forward Rectified Output Current @ $T_A=50^\circ\text{C}$	$I_{(AV)}$	3.0							A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load	$I_{FSM}$	40							A
Maximum Forward Voltage Drop Per Bridge Element at 1.5A Peak	$V_F$	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element	@ $T_J=25^\circ\text{C}$	10							$\mu\text{A}$
	@ $T_J=100^\circ\text{C}$	1.0							mA
Operating Temperature Range	$T_J$	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

Company reserves the right to improve product design , functions and reliability without notice.

## Rating and Characteristics Curves (BR3005-G Thru. BR310-G)

Fig.1 - Derating Curve Output Rectified Current

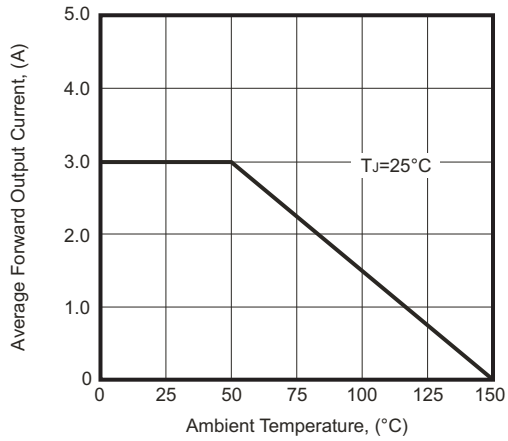


Fig.2 - Maximum Non-Repetitive Surge Current

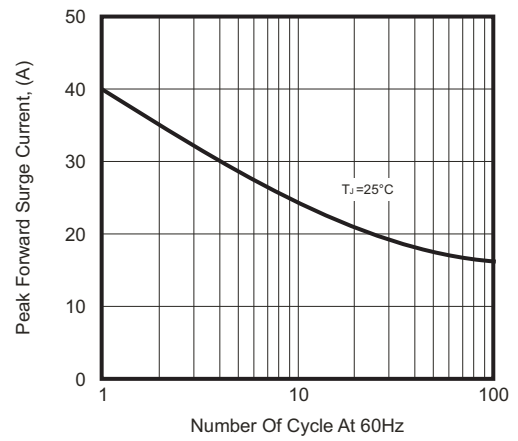


Fig.3 - Typical Forward Characteristics

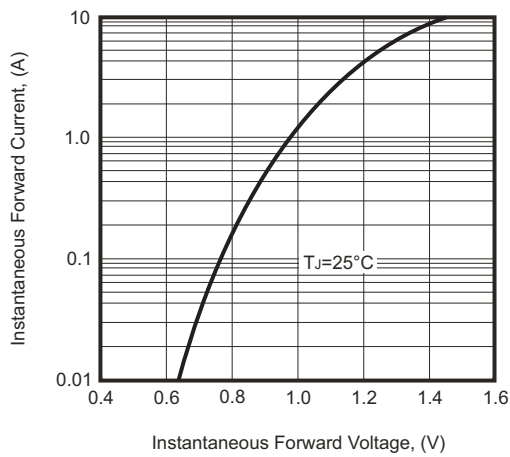
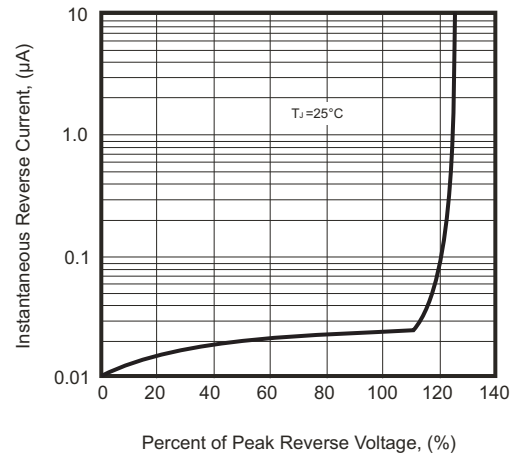
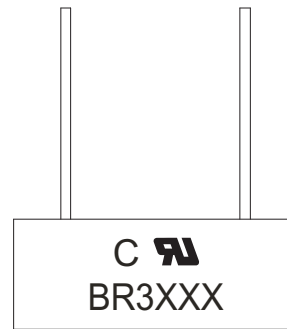


Fig.4 - Typical Reverse Characteristics



## Marking Code

Part Number	Marking code
BR3005-G	BR3005
BR301-G	BR301
BR302-G	BR302
BR304-G	BR304
BR306-G	BR306
BR308-G	BR308
BR310-G	BR310



XXX / XX = Product type marking code  
 C = Comchip Logo

## Standard Packaging

Case Type	BULK PACK	
	BOX ( pcs )	CARTON ( pcs )
BR3	200	2,000