

查询BR305供应商

捷多邦，专业PCB打样工厂，24小时加急



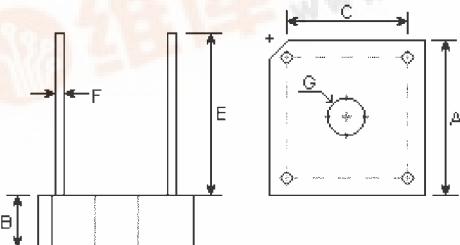
# BR305 THRU BR310

SINGLE-PHASE SILICON BRIDGE  
Reverse Voltage - 50 to 1000 Volts  
Forward Current - 3.0 Amperes

## Features

- Surge overload rating - 50 amperes peak
- Low forward voltage drop
- Small size; simple installation
- Tinned copper leads
- Mounting Position: Any
- Mounting: Thru hold for #6 screw

## BR3



DIM	inches		mm		Note
	Min.	Max.	Min.	Max.	
A	0.580	0.620	14.96	15.71	
B	0.193	0.213	4.9	5.4	
C	0.405	0.445	10.29	11.31	
E	0.75	-	19	-	
F	0.028	0.032	0.71	0.81	Φ
G	0.140	0.150	3.56	3.81	Φ

## Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

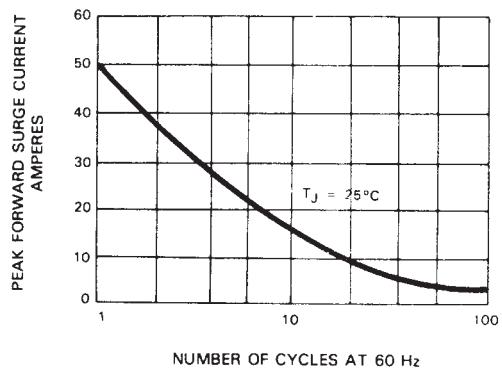
For capacitive load, derate current by 20%.

	Symbols	BR305	BR31	BR32	BR34	BR36	BR38	BR310	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS bridge input voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum average forward rectified output current at $T_c=50^\circ\text{C}$ * $T_c=100^\circ\text{C}$ * $T_A=50^\circ\text{C}$ **	$I_{(AV)}$					3.0	2.0	2.0	Amps
Peak forward surge current, 8.3mS single half sine-wave superimposed on rated load	$I_{FSM}$					50.0			Amps
Maximum forward Voltage drop per bridge element at 1.5A peak	$V_F$					1.2			Volts
Maximum DC reverse current at rated DC blocking voltage per element $T_c=25^\circ\text{C}$ $T_c=100^\circ\text{C}$	$I_R$					10.0	1.0		uA mA
Operating temperature range	$T_J$					-55 to +125			°C
Storage temperature range	$T_{STG}$					-55 to +150			°C

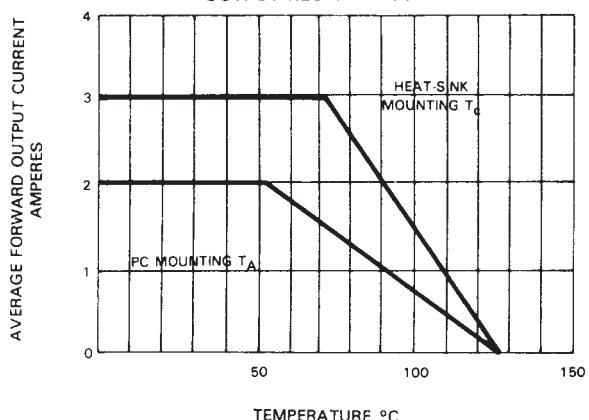
Notes:  
\* Unit mounted on metal chassis  
\*\* Unit mounted on P.C. board

## RATINGS AND CHARACTERISTIC CURVES

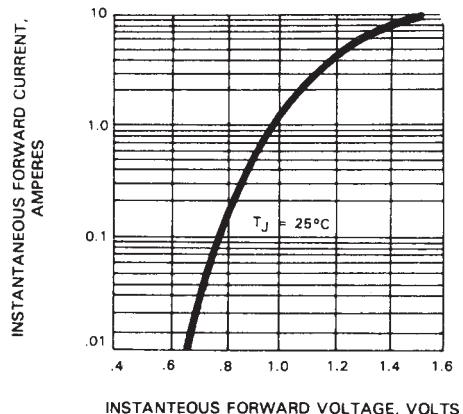
**Fig. 1 — MAXIMUM FORWARD SURGE CURRENT**



**Fig. 2 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**Fig. 3 — TYPICAL FORWARD CHARACTERISTICS**



**Fig. 4 — TYPICAL REVERSE CHARACTERISTICS**

