

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

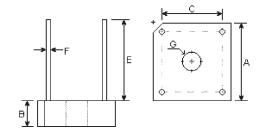
Small size; simple installation

Tinned copper leads

Mounting Position: Any

• Mounting: Thru hold for #6 screw

BR3



DIMENSIONS										
DIM	inches		m	Note						
	Min.	Max.	Min.	Max.	ivote					
Α	0.580	0.620	14.96	15.71						
В	0.193	0.213	4.9	5.4						
С	0.405	0.445	10.29	11.31						
E	0.75	-	19	-						
F	0.028	0.032	0.71	0.81	ф					
G	0.140	0.150	3.56	3.81	ф					

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
$\begin{array}{lll} \text{Maximum average forward} & \text{T} = 50^{\circ}\text{C} ^{*} \\ \text{rectified output current at} & \text{T}_{\text{A}}^{\text{c}} = 100^{\circ}\text{C} ^{*} \\ & \text{T}_{\text{A}}^{\text{c}} = 50^{\circ}\text{C} ^{**} \end{array}$	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
$\begin{array}{ll} \text{Maximum DC reverse current at rated} & \text{T}_{\text{A}}\text{=}25^{\circ}\text{C} \\ \text{DC blocking voltage per element} & \text{T}_{\text{A}}^{\text{A}}\text{=}100^{\circ}\text{C} \end{array}$	I _R	10.0 1.0							uA mA
Operating temperature range	T,	-55 to +125						$^{\circ}$	
Storage temperature range	T _{stg}	-55 to +150						$^{\circ}$	

Notes:

^{*} Unit mounted on metal chassis

^{**} Unit mounted on P.C. board

RATINGS AND CHARACTERISTIC CURVES

