

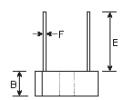
BR805 THRU BR810

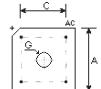
SINGLE-PHASE SILICON BRIDGE Reverse Voltage - 50 to 1000 Volts Forward Current - 8.0 Amperes

Features

- Surge overload rating 125 amperes peak
- Low forward voltage drop
- Mounting position: Any
- Small size; simple installation
- Silver plated copper leads
- Ceramic case on BR8 series

BR8





DIMENSIONS										
DIM	inches		m	Note						
	Min.	Max.	Min.	Max.	Note					
Α	0.730	0.770	18.542	19.558						
В	0.250	0.300	6.35	7.63						
С	0.480	0.520	12.19	13.21						
Е	0.750	-	19.1	-						
F	0.380	0.042	0.97	1.07	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. For capacitive load, derate current by 20%.

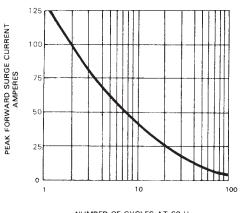
	Symbols	BR805	BR81	BR82	BR84	BR86	BR88	BR810	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS bridge input voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
$\begin{array}{ll} \text{Maximum average forward} & \text{T}_c = 100^{\circ}\text{C} \star \\ \text{rectified output current at} & \text{T}_A^c = 50^{\circ}\text{C} \star \star \end{array}$	I _(AV)	8.0 8.0							Amps
Peak forward surge current, 8.3mS single half sine-wave superimposed on rated load	I _{FSM}	125.0						Amps	
Maximum forward Voltage drop per bridge element at 4.0A peak	V _F	1.1						Volts	
Maximum DC reverse current at rated DC blocking voltage per element T _A =100 °C	I _R	10.0 1.0						uA mA	
Operating temperature range	T _J	-55 to +125						$^{\circ}$ 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



NUMBER OF CYCLES AT 60 Hz

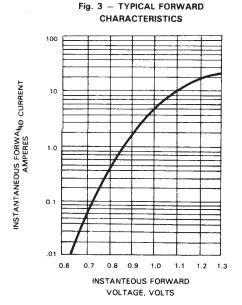
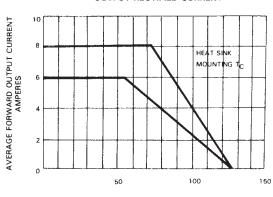
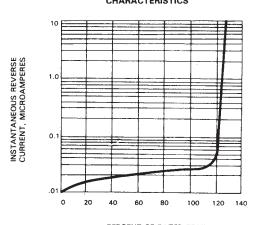


Fig. 2 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



TEMPERATURE °C

Fig. 4 — TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE