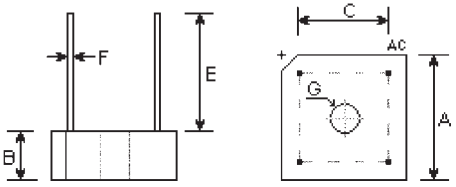
BR1005 THRU BR1010

SINGLE-PHASE SILICON BRIDGE
Reverse Voltage - 50 to 1000 Volts
Forward Current - 10.0 Amperes

Features

- Surge overload rating - 200 amperes peak
- Low forward voltage drop
- Small size; simple installation
- Silver plated copper leads
- Mounting position: Any
- Ceramic case

BR10



DIMENSIONS					
DIM	inches		mm		Note
	Min.	Max.	Min.	Max.	
A	0.580	0.620	14.69	15.71	
B	0.230	0.270	5.84	6.86	
C	0.405	0.445	10.29	11.31	
E	0.750	-	19.1	-	
F	0.038	0.042	0.97	1.07	ϕ
G	HOLE FOR NO. 6 SCREW				

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
For capacitive load, derate current by 20%.

	Symbols	BR 1005	BR 101	BR 102	BR 104	BR 106	BR 108	BR 1010	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℃ / T_C=100℃ * / T_A=50℃ **	$I_{(AV)}$	10.0 6.0 6.0							Amps
Peak forward surge current, 8.3mS single half sine-wave superimposed on rated load	I_{FSM}	200.0							Amps
Maximum forward Voltage drop per element at 5.0A peak	V_F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage per element T_A=25℃ / T_A=100℃	I_R	10.0 1.0							uA mA
Operating temperature range	T_J	-55 to +125							℃
Storage temperature range	T_{STG}	-55 to +150							℃

Notes:

* Unit mounted on metal chassis

** Unit mounted on P.C. board

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 — MAXIMUM FORWARD SURGE CURRENT

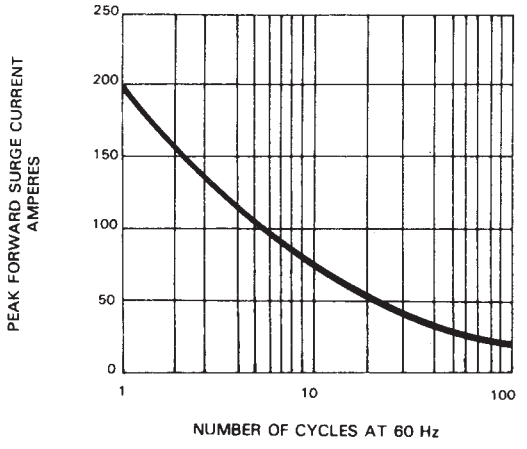


Fig. 2 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

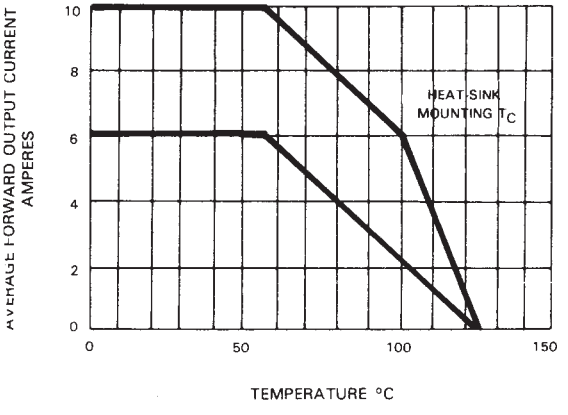


Fig. 3 — TYPICAL FORWARD CHARACTERISTICS

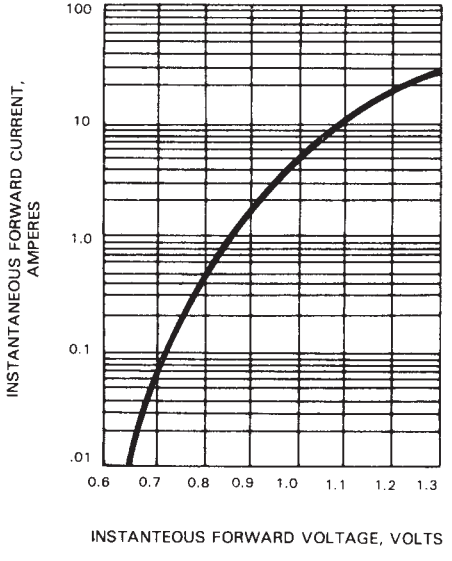


Fig. 4 — TYPICAL REVERSE CHARACTERISTICS