

## Silicon Bridge Rectifiers

## BR10005--BR1010

### FEATURES

- Rating to 1000V PRV
- Surge overload rating to 200 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208
- Mounting: thru hole for # 6 screw mounting



Lead-free

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

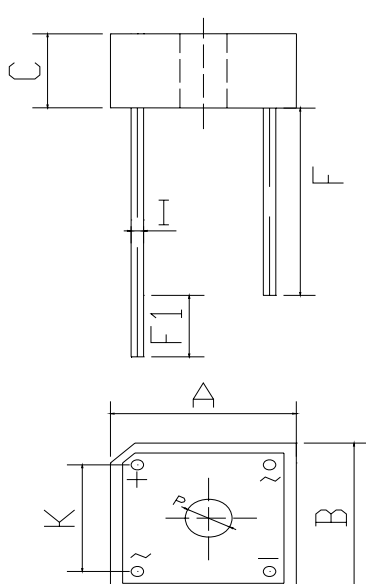
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		BR 10005	BR 1001	BR 1002	BR 1004	BR 1006	BR 1008	BR 1010	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward Output current @ $T_A=50^\circ\text{C}$	$I_{F(AV)}$	10.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	200							A
Maximum instantaneous forward voltage @5.0A	$V_F$	1.1							V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=100^\circ\text{C}$	$I_R$	10 1.0							$\mu\text{A}$ mA
Operating junction temperature range	$T_J$	- 55 ---- + 125							$^\circ\text{C}$
Storage temperature range	$T_{STG}$	- 55 ---- + 150							$^\circ\text{C}$

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**PACKAGE OUTLINE DIMENSIONS**



BR8		
Dim	Min	Max
A	18.75	19.15
B	18.75	19.15
C	6.90	7.20
F	19.00min	
F1	2.00min	
I	Ø1.20	Ø1.40
K	12.20	12.80
P	Ø3.80Typical	
All Dimensions in mm		

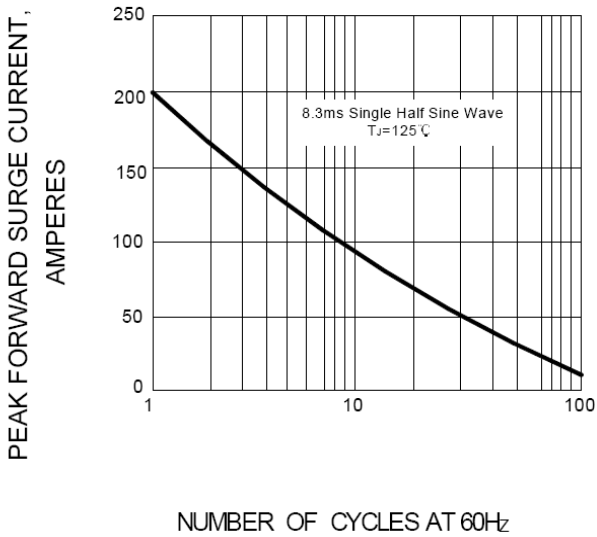
**PACKAGE INFORMATION**

Device	Package	Shipping
BR10005--BR1010	BR	50 Units/Box

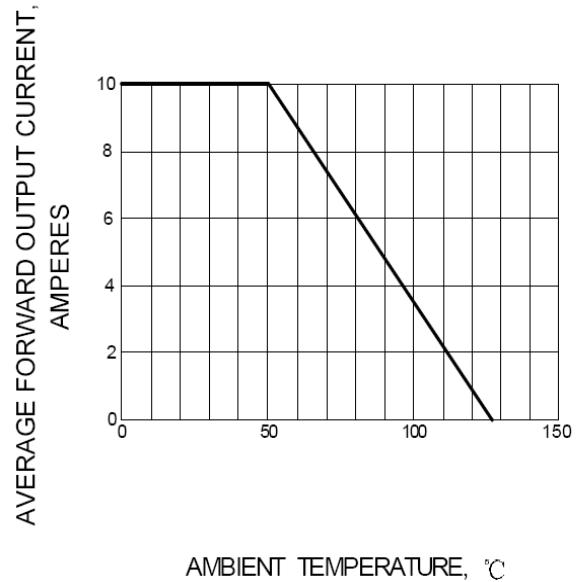
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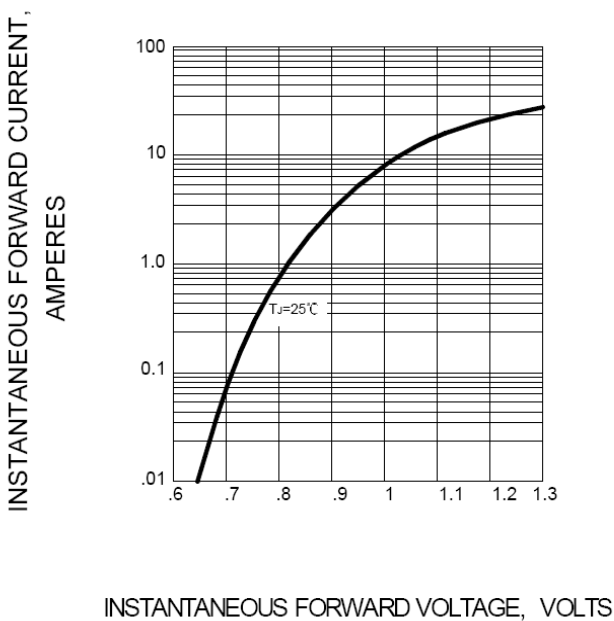
**FIG.1 -- PEAK FORWARD SURGE CURRENT**



**FIG.2 -- FORWARD DERATING CURVE**



**FIG.3 -- TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 -- TYPICAL REVERSE CHARACTERISTIC**

