

**HIGH CURRENT GLASS PASSIVATED SINGLE_PHASE
BRIDGE RECTIFIFR**

Reverse voltage - 1000V

Forward Current - 50 A

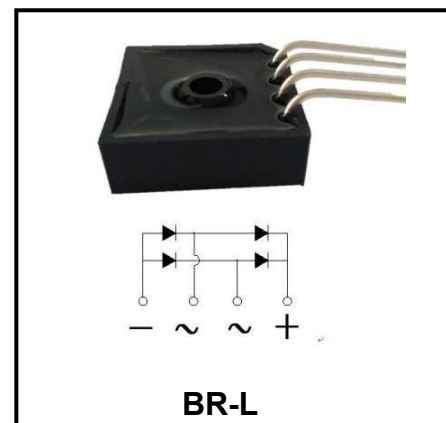
FEATURES

- ♦The plastic package has Underwriters Laboratory flammability recognition 94V-0
- ♦Integrally molded heatsink provide very low thermal resistance for maximum heat dissipation
- ♦Universal 3_way terminals; snap_on, wire wrap _around, or P.C. Board mounting
- ♦Surge overload ratings to 400 Amperes
- ♦Glass passivated chip junctions
- ♦High temperature soldering guaranteed: 260°C/10 seconds at 5lbs., (2.3kg)tension

MECHANICAL DATA

- ♦Case:BR-L
- ♦polarity: polarity symbols molded on body
- ♦Weight: 13grams

Absolute MAX rating



Parameter	Symbols	BR5010L	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Average rectified forward current,50Hz Sine wave resistance load $T_c=85^{\circ}\text{C}$	I_o	50	A
Peak Surge forward Current Non-repetitive 50Hz 10ms Sine wave $T_j=25^{\circ}\text{C}$	I_{FSM}	400	A
Dielectric strength,Terminals to case AC 1 minute	V_{dia}	2	kv
Forward Voltage $I_F=25A$	V_F	1.1	V
Reverse current	I_R	10	μA
Thermal reslstance,Junction to Case	$R_{\theta JC}$	1.5	$^{\circ}\text{C/W}$
Storage Temperature	T_{stg}	-40 ~ 150	$^{\circ}\text{C}$
Openrating junction Temperature	T_j	150	$^{\circ}\text{C}$

Rating and Characteristic Curves

FIG1:Io-Tc Curve

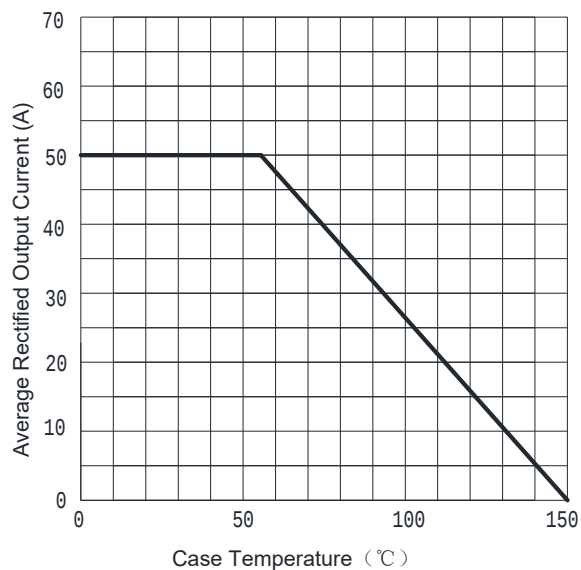


FIG2:Surge Forward Current Capability

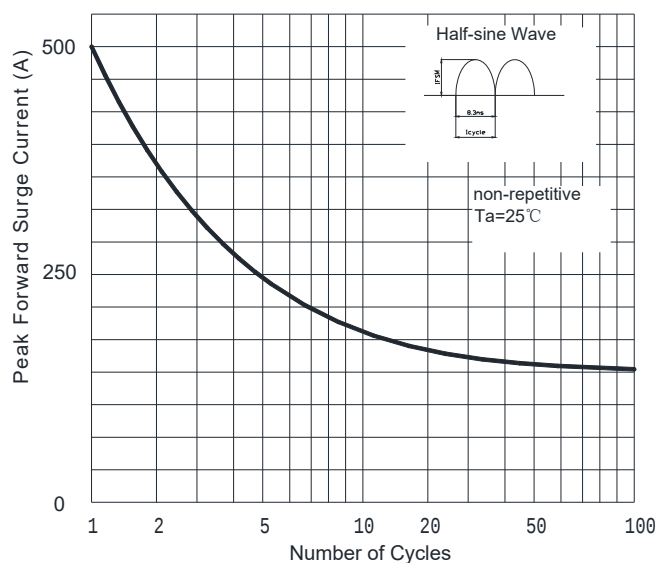


FIG3:Instantaneous Forward Voltage

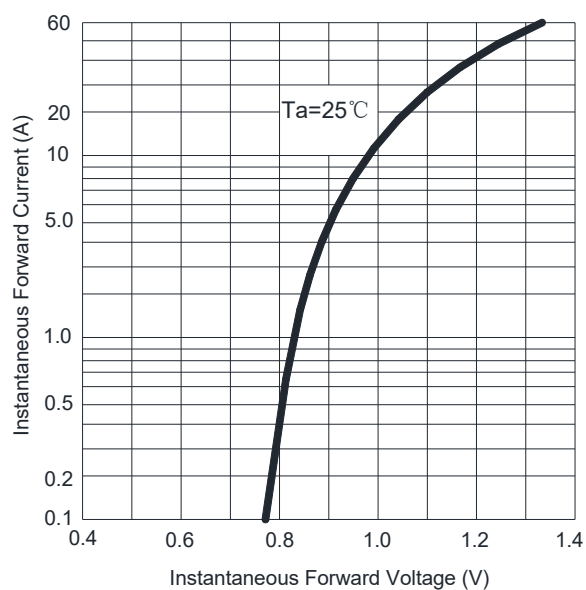
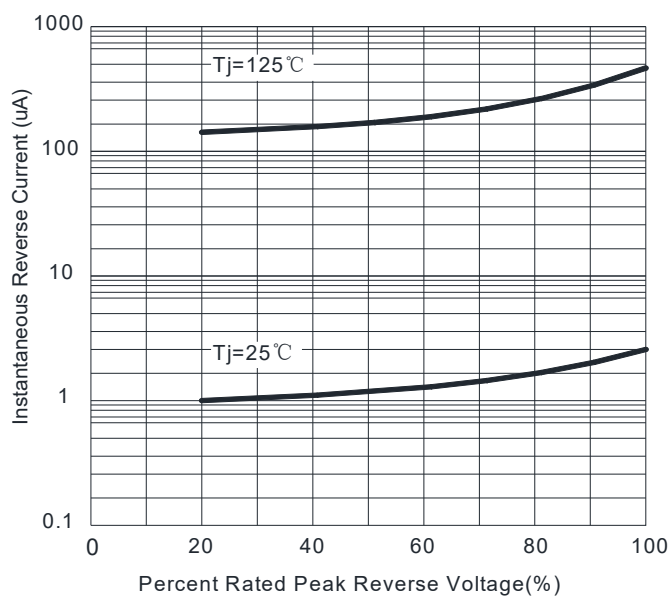


FIG4:Typical Reverse Characteristics



Marking Diagram



Ordering information

Package	Packing Description	Packing Quantity
BR-L	bulk	50PCS/Box 500PCS/Carton

Package Dimensions

BR-L

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	28.2	28.8	1.11	1.13
B	3.0	4.5	0.118	0.177
C	19.1	-	0.752	-
D	13.9	-	0.547	-
E	1.23	1.33	0.048	0.052
F	4.6	5.6	0.181	0.220
G	5.0	5.55	0.197	0.219
H	10.8	11.2	0.425	0.441

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