

**HIGH CURRENT GLASS PASSIVATED SINGLE_PHASE
BRIDGE RECTIFIR**

Voltage - 1600V

Forward Current - 25 A

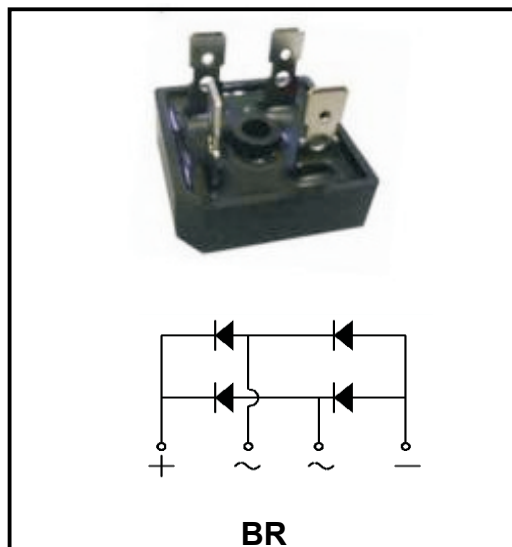
FEATURES

- ◆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
- ◆Terminals: Solderable per MIL-STD-202, Method208
- ◆Weight: 19 grams

Absolute MAX rating



Parameter	Symbols	BR2516	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1600	V
Maximum RMS voltage	V_{RMS}	1120	V
Maximum DC Blocking Voltage	V_{DC}	1600	V
Average rectified forward current,50Hz Sine wave resistance load $T_c=85^{\circ}\text{C}$	I_o	25	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	Vdia	2	kv
Forward Voltage $I_F=17.5\text{A}$	V_F	1.05	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

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

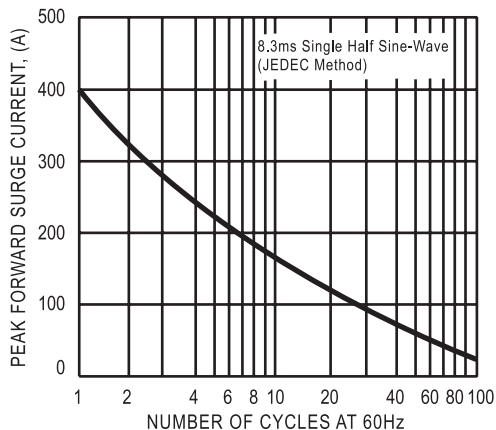


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

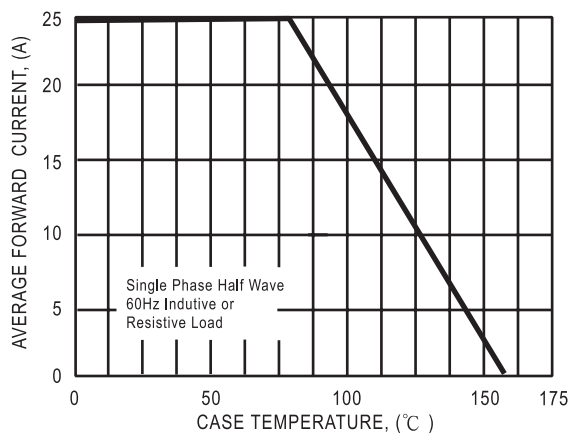


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

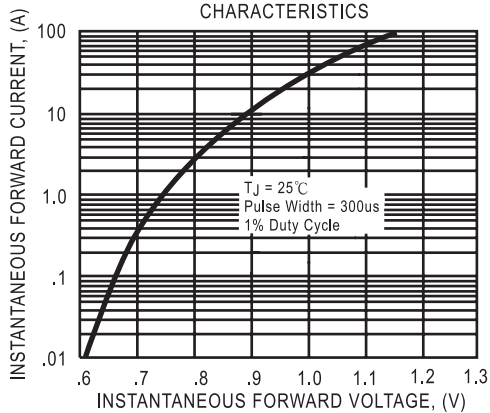
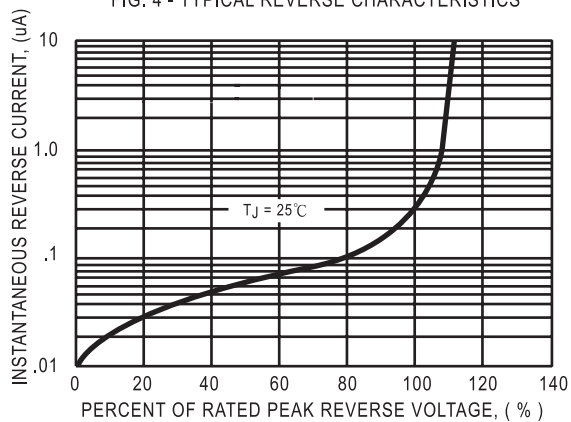
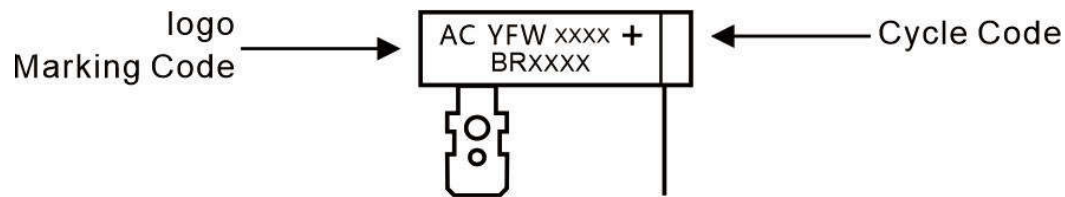


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



Marking Diagram



Ordering information

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

Package Dimensions

BR

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	13.90	14.90	0.547	0.587
B	15.70	16.70	0.618	0.657
C	4.50	5.50	0.177	0.217
D	18.00	19.00	0.709	0.748
E	15.70	16.70	0.618	0.657
F	31.0	32.0	1.220	1.260
G	0.60	1.00	0.024	0.256
H	6.10	6.50	0.240	0.256
I	8.50	9.50	0.335	0.374
J	22.00	24.00	0.866	0.945

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