

**HIGH CURRENT GLASS PASSIVATED SINGLE_PHASE
BRIDGE RECTIFIFR**

Voltage - 1600V

Forward Current - 35 A

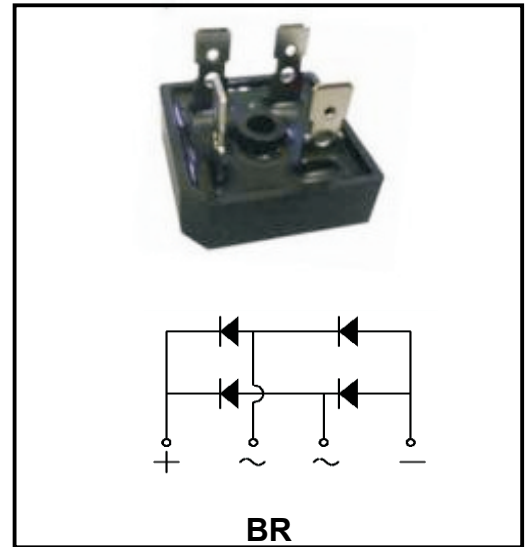
FEATURES

- ◆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: 19.3 grams

Absolute MAX rating



Parameter	Symbols	BR3516	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 Tc=85°C	I_o	35	A
Peak Surge forward Current Non-repetitive 50Hz 10ms Sine wave Tj=25°C	I_{FSM}	450	A
Dielectric strength,Terminals to case AC 1 minute	Vdia	2	kv
Forward Voltage If=17.5A	V_F	1.05	V
Reverse current	I_R	10	μA
Thermal resistance,Junction to Case	$R_{θJC}$	1.5	°C/W
Storage Temperature	T_{stg}	-40 ~ 150	°C
Openrating junction Temperature	T_j	150	°C

Rating and Characteristic Curves

FIG. 1
TYPICAL FORWARD CURRENT
DERATING CURVE

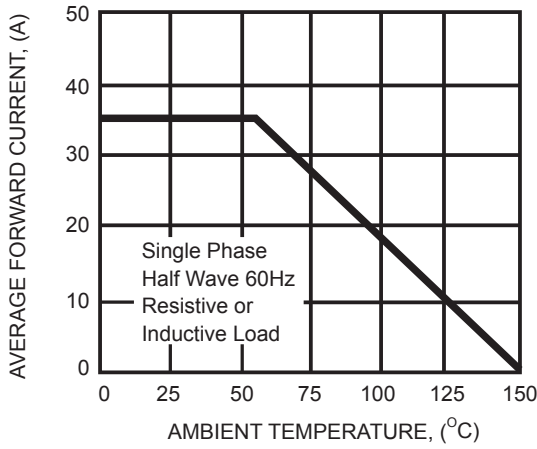


FIG. 2
MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

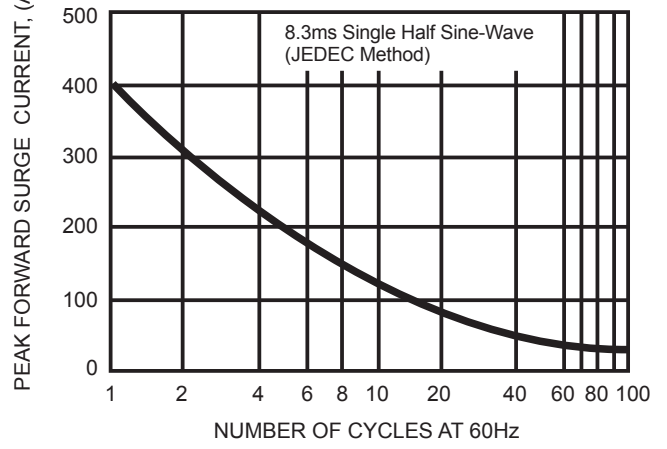


FIG. 3
TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

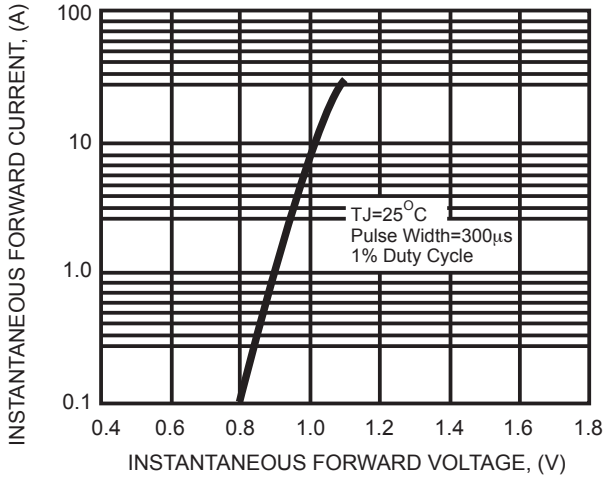
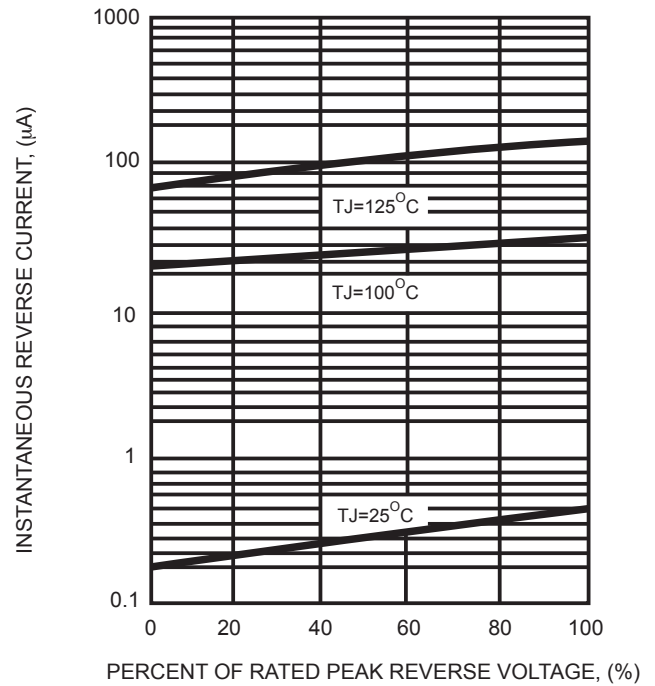
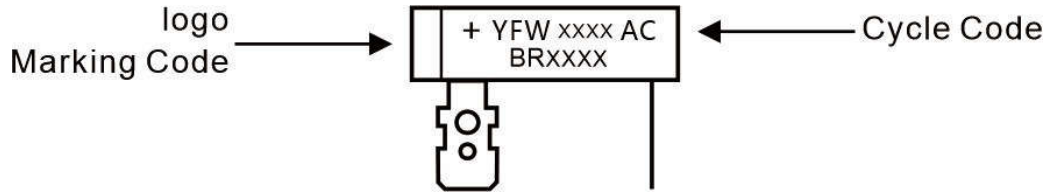


FIG. 4
TYPICAL REVERSE CHARACTERISTICS



Marking Diagram



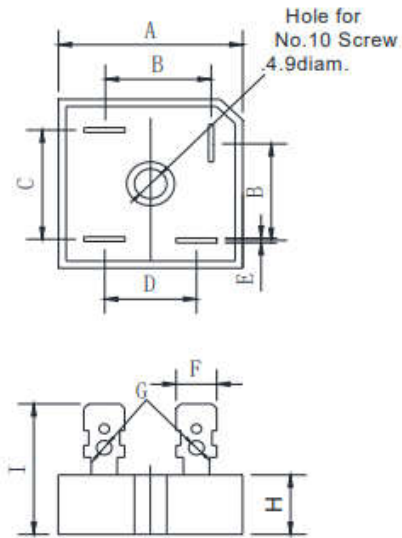
Ordering information

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

Package Dimensions

BR

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	28.2	28.8	1.11	1.13
B	15.3	17.3	0.60	0.68
C	17.1	19.1	0.67	0.75
D	13.2	15.2	0.52	0.60
E	0.75	0.85	0.03	0.03
F	6.2	6.4	0.24	0.25
G	2.3	2.5	0.09	0.10
H	10.8	11.2	0.43	0.44
I	19	/	0.75	/



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