

SINGLE-PHASE SILICON BRIDGE RECTIFIER

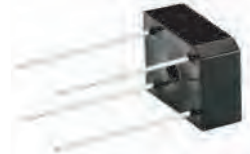
VOLTAGE RANGE 50 to 1000 Volts CURRENT 10 Amperes

FEATURES

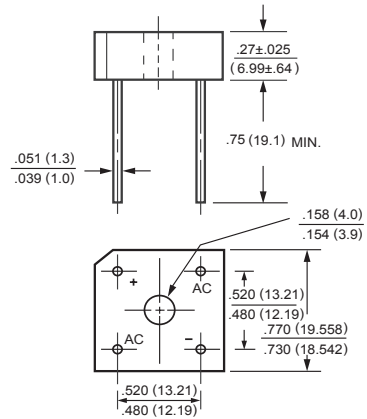
- * Surge overload rating: 200 amperes peak
- * Low forward voltage drop

MECHANICAL DATA

- * UL listed the recognized component directory, file #E94233
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: Mil-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 7.86 grams



BR-10



Dimensions in inches and (millimeters)

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 current by 20%.

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	BR1005	BR101	BR102	BR104	BR106	BR108	BR1010	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts	
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts	
Maximum Average Forward Tc = 50°C	I _O	10.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}					200				Amps
Current Squared Time	I ² t					166				A ² /Sec
Operating Temperature Range	T _J					-55 to + 150				°C
Storage Temperature Range	T _{STG}					-55 to + 150				°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	BR1005	BR101	BR102	BR104	BR106	BR108	BR1010	UNITS	
Maximum Forward Voltage Drop per element at 5.0A DC	V _F					1.1				Volts
Maximum Reverse Current at Rated	I _R					5.0				uAmps
DC Blocking Voltage per element						0.2				mAmps

- NOTES : 1. Thermal Resistance : Mounted on PCB.
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

RATING AND CHARACTERISTIC CURVES (BR1005 THRU BR1010)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

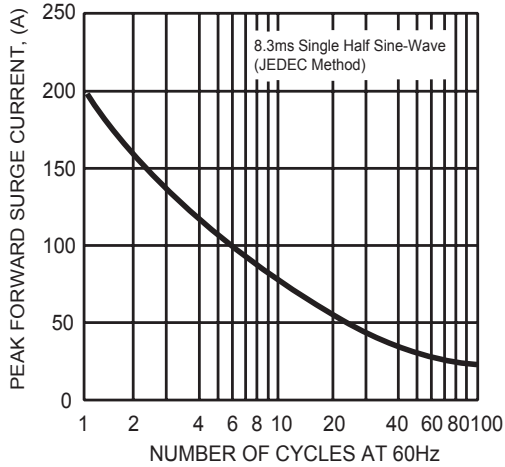


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

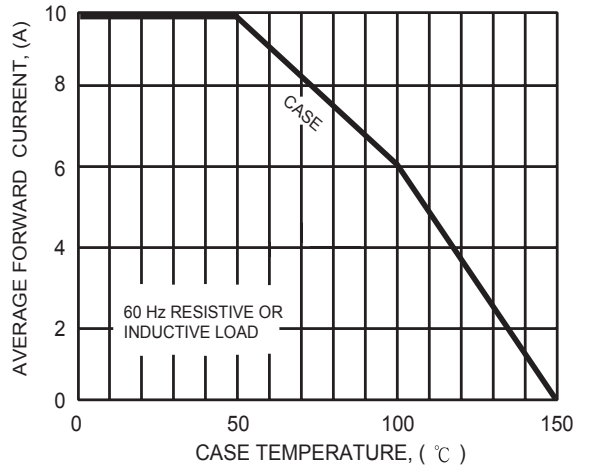


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

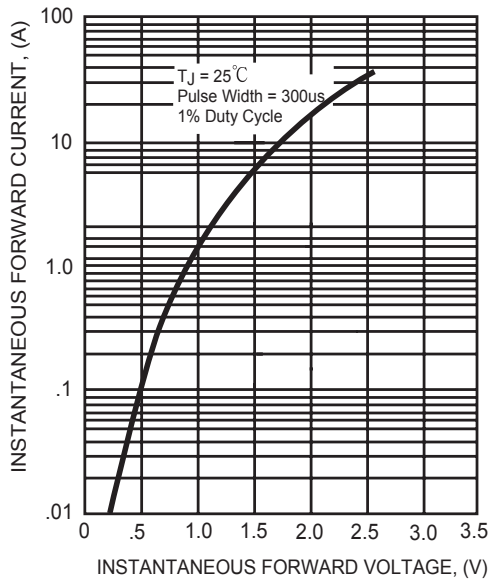
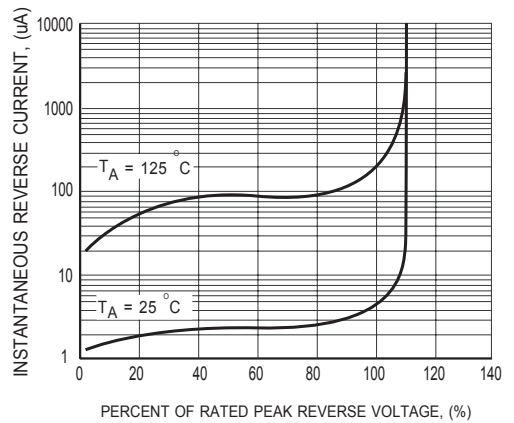
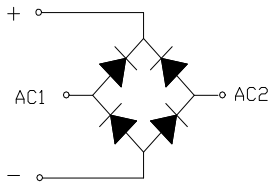
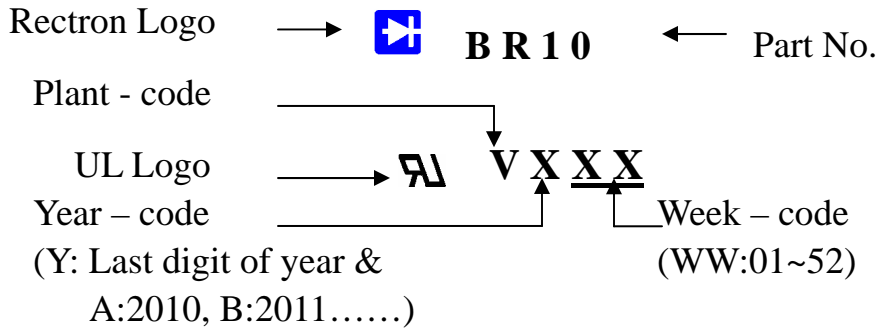


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS





2. Marking on the body



3. Items marked on the inner box and carton

3.1 On the box (for -B)

CUSTOMER
TYPE
LOT NO.
QUANTITY
Q.A.
DATE

3.2 On the carton

CUSTOMER
TYPE
QUANTITY
LOT NO.
REMARK

PACKAGE	PACKING CODE	EA PER BOX	(mm)	(mm)	EA PER CARTON
BR-10	-B	200	236*236*50	497*251*282	2,000

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