

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

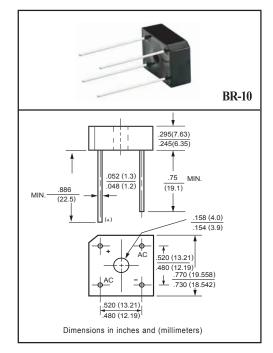
MECHANICAL DATA

* UL listed the recognized component directory, file #E94233

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: Mil-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 7.86 grams
- * Mounting: Hole thru for # 6 screw



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

For capacitive load, derate current by 20%.

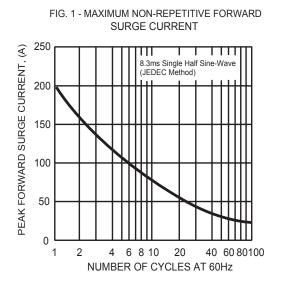
RATINGS	SYMBOL	BR1005	BR101	BR102	BR104	BR106	BR108	BR1010	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Tc = 50°C		10.0							
Rectified Output Current at: Tc = 100°C	lo	6.0							
$TA = 50^{\circ}C$		6.0							1
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	200							Amps
Typical Current Squared Time	I ² T	166					A ² S		
Typical Thermal Resistance (Note 1)	R _{OJC}	7.3							°C/W
	R _{OJA}	28							
Operating Temperature Range	TJ	-55 to + 150						٥C	
Storage Temperature Range	Тѕтс	-55 to + 150					٥C		

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

CHARACTERISTIC	SYMBOL	BR1005	BR101	BR102	BR104	BR106	BR108	BR1010	UNITS	
Maximum Forward Voltage Drop per element	VF	1.0							Volts	
Maximum Reverse Current at Rated	@TA = 25°C	IR	5.0							uAmps
DC Blocking Voltage per element	@Tc = 100°C		0.2							mAmps
NOTES : 1. Thermal Resistance : Mounted on PCB.								2021-11 REV: D		

2. "RoHS compliant"

Downloaded from Arrow.com.



RATING AND CHARACTERISTIC CURVES(BR1005 THRU BR1010)

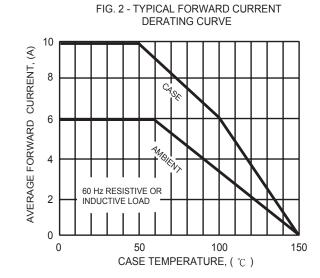


FIG. 3- MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

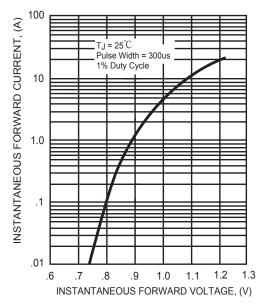
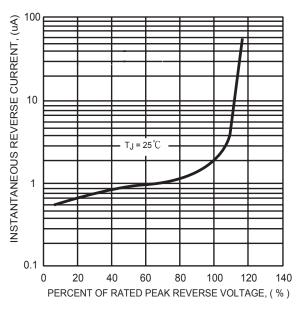


FIG. 4 - MAXIMUM REVERSE CHARACTERISTICS

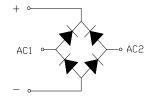


RECTRON-

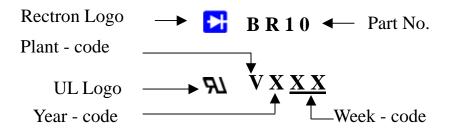


Attachment information about BR10X

1. Internal Circuit



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

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAG	E PAC	CKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)	
BR-8/-10		-В	200	236*236*50	497*251*282	1,600	9.80	

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