

SINGLE-PHASE SILICON BRIDGE RECTIFIER

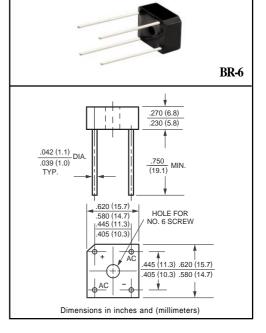
VOLTAGE RANGE 50 to 1000 Volts CURRENT 6.0 Amperes

FEATURES

- * Surge overload rating: 125 amperes peak
- * Low forward voltage drop
- * Small size: simple installation
- * Mounting position: Any
- * Mounting: Hole thru for # 6 screw

MECHANICAL DATA

- * UL listed the recognized component directory, file #E94233
- * Epoxy: Device has UL flammability classification 94V-O



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	BR605	BR61	BR62	BR64	BR66	BR68	BR610	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input 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 Rectified Output Current at Tc = 75°C	lo	6.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave	IFSM 125						Amps		
superimposed on rated load (JEDEC method)	IFSM	125							
Typical Thermal Resistance from junction to case	RθJC	7.3							°C/W
Typical Thermal Resistance from junction to ambient	RθJA	28							
Operating Temperature Range	TJ	-55 to + 150							٥C
Storage Temperature Range	Tstg	-55 to + 150							٥C

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

CHARACTERISTICS		SYMBOL	BR605	BR61	BR62	BR64	BR66	BR68	BR610	UNITS
Maximum Forward Voltage Drop per element at 3.0A DC		VF	1.0							Volts
Maximum Reverse Current at Rated	@TA = 25°C	IR	5.0							uAmps
DC Blocking Voltage per element	@Tc = 100°C	IK				0.2				mAmps

Note: "Fully ROHS compliant", "100% Sn plating (Pb-free)".

RATING AND CHARACTERISTIC CURVES (BR605 THRU BR610)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD

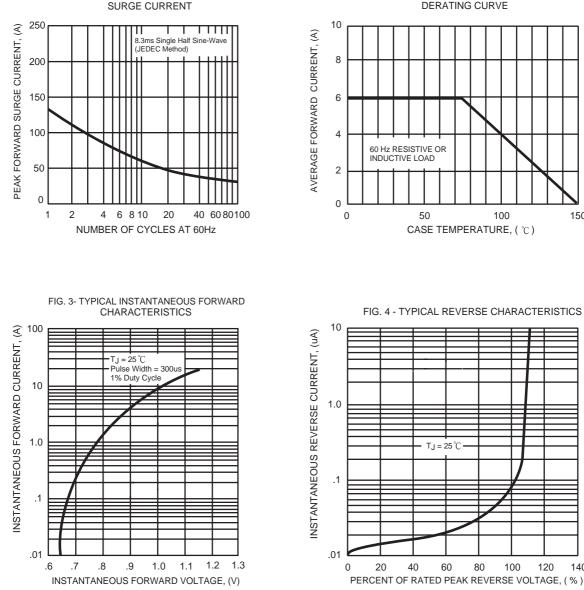


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

100

150

140

100

120



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Rectron:

BR61 BR62 BR68 BR64 BR610 BR605 BR66