

**BR605 THRU BR610** 

### SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

**VOLTAGE RANGE 50 to 1000 Volts CURRENT 6.0 Amperes** 

### **FEATURES**

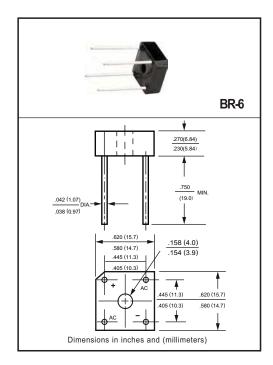
- \* Surge overload rating :125 amperes peak
- \* Low forward voltage drop
- \* Small size :simple installation
- \* Mounting position: Any
- \* Mounting: Hole thru for #6 screw
- \* Mounting Torque: 8 KgF/cm(max.)
- \* Recommended Torque : 6 KgF/cm

### **MECHANICAL DATA**

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

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



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

RATINGS	SYMBOL	BR605	BR61	BR62	BR64	BR66	BR68	BR610	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>C</sub> = 75 °C (with heat sink)	I <sub>0</sub>	6.0					Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	125					Amps		
Current Squarad Time	l <sup>2</sup> t	64.8				A <sup>2</sup> /Sec			
Typical Thermal Resistance (Note 1)	$R_{\Theta JC}$	7.3							
Typical Thermal Resistance (Note 1)	$R_{\Theta JA}$	28							°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150					٥C		

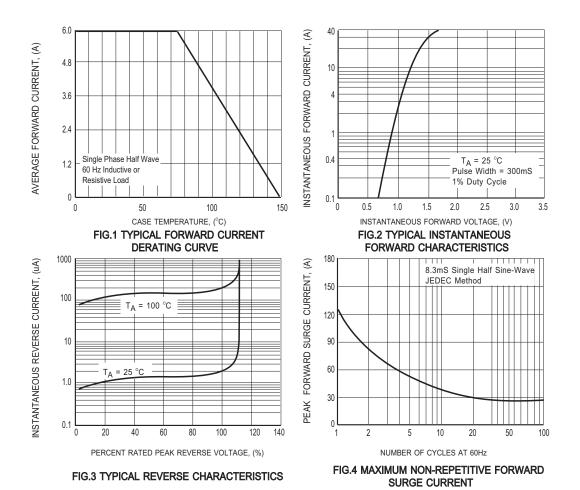
### $\textbf{ELECTRICAL CHARACTERISTICS}(@T_A=25~^{\circ}C~unless~otherwise~noted)$

CHARACTERIST	SYMBOL	BR605	BR61	BR62	BR64	BR66	BR68	BR610	UNITS	
Maximum Instantaneous Forward Voltage at 3.0A DC		V <sub>F</sub>	1.0						Volts	
Maximum DC Reverse Current	@T <sub>A</sub> = 25°C	- I <sub>R</sub>				5.0				
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C					200				uAmps

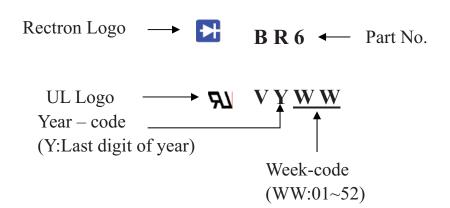
NOTES: 1.Thermal Resistance: Heat-sink case mounted or if PCB mounted.
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2014-08 REV:C

# RATING AND CHARACTERISTICS CURVES (BR605 THRU BR610)



# **Marking Description**



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

## BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
BR-3/-6	-В	200	206*208*55	450*220*255	2,000	7.50/8.50

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