

BR1505 THRU BR1510

SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 15.0A

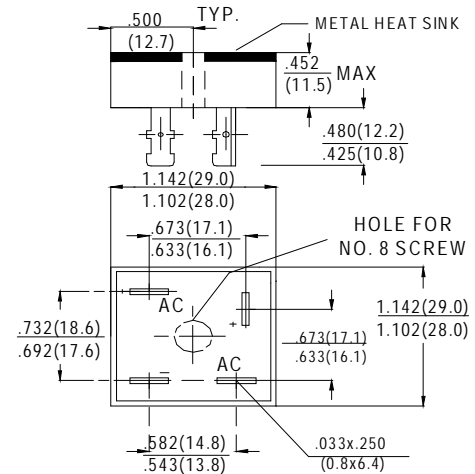
FEATURES

- Plastic case with heatsink for Maximum Heat Dissipation
- Surge overload ratings-300 Amperes
- Low forward voltage drop

MECHANICAL DATA

- **Case:** Metal or plastic shell with plastic encapsulation
- **Epoxy:** UL 94V-0 rate flame retardant
- **Terminals:** Plated .25"(6.35mm) Faston lugs, Solderable per MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** As marked
- **Mounting:** Thru hole for 8# screw
- **Weight:** 30 grams

BR-25



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	SYMBOL	BR1505	BR151	BR152	BR154	BR156	BR158	RB1510	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward rectified Output Current at $T_C=55^\circ C$	I_o	15							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	300							A
Maximum Forward Voltage Drop per element at 7.5A DC	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	@ $T_A=25^\circ C$	10							μA
	@ $T_A=100^\circ C$	500							
I^2t Rating for Fusing ($t<8.3ms$)	I^2t	374							A^2S
Typical Junction Capacitance (Note 1)	C_J	300							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	2.5							$^\circ C/W$

Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance from Junction to Case per leg