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

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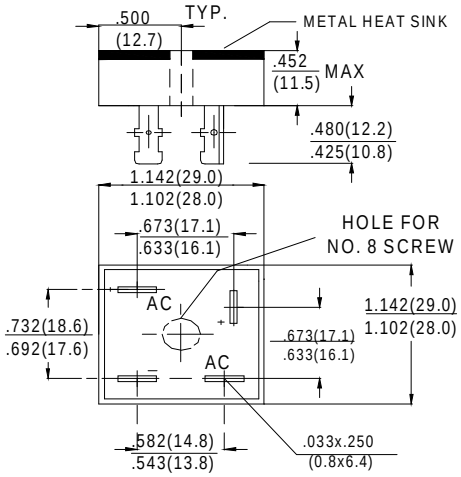

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

Ratings at 25℃ 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°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°C	I_R	10							μA
	@ T_A=100°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							°C/W

Notes: 1.Measured at 1MHz and applied reverse voltage of 4.0 volts
2.Thermal Resistance from Junction to Case per leg