

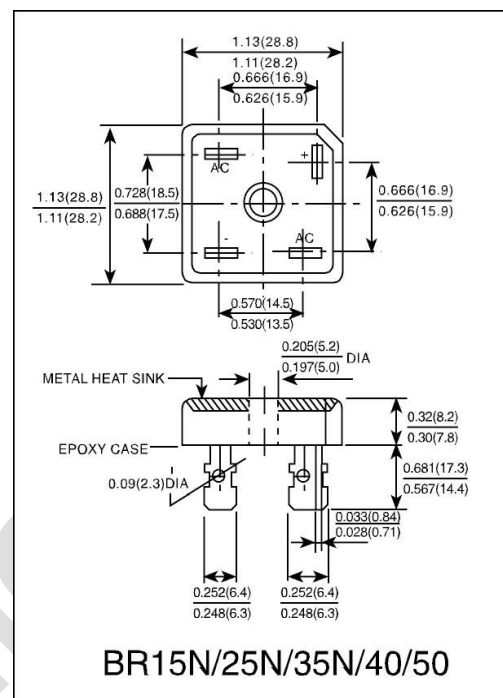
### SINGLE-PHASE BRIDGE RECTIFIER

#### FEATURES

- Low cost
- High forward surge current capability.
- Intergrally molded heatsink provide very low thermal resistan
- High temperature soldering guaranteed:  
260°C/10 second, at 5 lbs. (2.3kg) tension.

#### MECHANICAL DATA

- Case: Molded plastic body, suffix "N" for thinner type.
- Terminal: Plated 0.25" (6.35mm) lug.
- Polarity: Polarity symbols marked on case.
- Mounting: Thru hole for #10 screw, 20 in - lbs. Torque max
- Weight: 0.66ounce, 18.7gram(BR40)



#### 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%

	SYMBOLS	BR4005	BR401	BR402	BR404	BR406	BR408	BR4010	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, at $T_C = 50^\circ C$ (Note1)	$I_{(AV)}$	40							Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method )	$I_{FSM}$	400							Amps
Rating for Fusing ( $t < 8.3ms$ )	$I^2t$	664							$A^2s$
Maximum Instantaneous Forward Voltage Drop per bridge element at 20A	$V_F$	1.1							Volts
Maximum DC Reverse Current at rated DC blocking voltage per element	$I_R$	$T_A = 25^\circ C$							$\mu$ Amp
		$T_A = 100^\circ C$							mAmp
Isolation Voltage from case to lugs	$V_{ISO}$	2500							$V_{AC}$
Typical Thermal Resistance (Note 1, 2)	$R_{JC}$	2.0							$^\circ C/W$
Operating Temperature Range	$T_J$	(-65 to +150)							$^\circ C$
Storage Temperature Range	$T_{STG}$	(-65 to +150)							

1. Unit Mounted on 9" X 3.5" X 4.6" (23 X 9 X 11.8cm) Al. finned plate.

2. Bolt down on heatsink with silicon thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

