

GLASS PASSIVATED SINGLE-OHASE BPIDGE RECTIFIER

MT3508G THRU MT3516G

VOLTAGE RANGE

1600 Volts

CURRENT

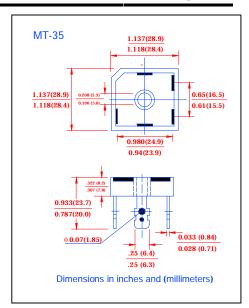
35 Amperes

FEATURES

- Integrally molded heatsink provides very low thermal resistance for maximum heat dissipation
- Glass passivated chip junction
- Surge overload rating to 400 ampers
- High temperature soldering guaranteed: 260°C/10 seconds,/5 lbs tension

MECHANICAL DATA

- Case:Epoxy, Molded Plastic with heaksink integrally Mounted in the bridge encapsulation.
- Mounting Position: Bolt down on heatsink with silicone Thermal compound between bridge and mounting Surface for maximum heat transfer efficiency
- Mounting Torque: 20 in,lbs max
- Weight: 0.706 ounce, 20 gram



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	MT3508G	MT3512G	MT3516G	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	800	1200	1600	Volts
Working Peak Reverse Voltage	V_{RMS}	800	1200	1600	Volts
Maximum DC Blocking Voltage	V_{DC}	800	1200	1600	Volts
Maximum Average Forward Rectified Output Current, at T _C =55°C (Note 2)	I _(AV)	35			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	1030			A^2s
Maximum Instantaneous Forward Voltage drop Per Bridge element 17.5A	V_{F}	1.2			Volts
Maximum DC Reverse Current at rated DC blocking voltage per element TA=25 °C	I_R	5.0			μAmps
Typical Thermal Resistance per Element	$R_{\Theta JC}$	2.0			°C/W
Isolation Voltage from case to lug	V _{ISO}	2500			V_{AC}
Operating and Storage Temperature Range	T_{J} , T_{STG}	(-55 to +150)			$^{\circ}$ C

Notes: 1.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

2.Unit mounted on 11.8" \times 11.8" \times 0.6" thick(300 \times 300 \times 15mm) Copper plate.

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RATINGS AND CHARACTERISTICS CURVES MT3508G THRU MT3516G

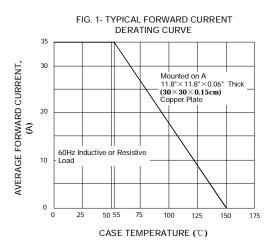
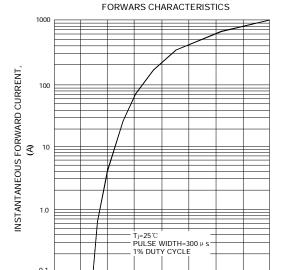
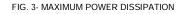


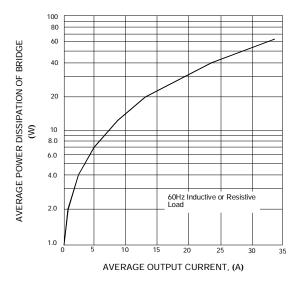
FIG. 2- TYPICAL FORWARD CURRENT **DERATING CURVE** 35 AVERAGE FORWARD CURRENT, 30 Mounted on A . 12" ×12"×0.25" Thick (30.3×30.3×0.635 cm) Al Plate 25 20 € 15 10 60Hz Inductive or Resistive 0 25 75 100 125 175 AMBIENT TEMPERATURE, (℃)



INSTANTANEOUS FORWARD VOLTAGE, (V)

FIG. 3- TYPICAL INSTANTANEOUS





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