

# THREE - PHASE BRIDGE RECTIEFIER MT3516

# **Three - Phase Bridge Rectifier**

### **Features**

- Integrally molded hatsinks provide very low thermal Resistance for maximum heat dissipation
- Surge overload rating to 500 amperes
- High temperature soldering guaranteed: 260°C/10 seconds, at 5lbs(2.3kg) tension
- RoHS and REACH Compliance



nechanicai Data	
Case:	Epozy, Molded plastic with heatsink integrally mounted in the
Case.	Bridge encapsulation
Polarity	/
Terminals:	/
Mounting torque	20 in. lbs max
Mounting position:	Bolt down on heatsink with silicon thermal compound between
wounting position.	bridge and mounting surface for maximum heat transfer efficiency
Weight:	0.706 ounce, 20 gram

### **Maximum Ratings** (*T* Ambient=25°C unless noted otherwise)

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Symbol	Description	MT3508	MT3512	MT3516	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	800	1200	1600	٧	
VRMS	Max RMS Voltage	800	1200	1600	٧	
VDC	Max DC Blocking Voltage	800	1200	1600	٧	
I(AV)	Max Average Forward Rectified Current	35			Α	@TC=55℃ (Note 2)
IFSM	Peak Forward Surge Current	500			Α	8.3ms single half sine-wave (JEDEC method)
TJ,TSTG	Operating and Storage Temperature Range	-65 to +150, -65 to +150			င	
I2t	Rating for Fusing	1030			A2s	T<8.3mS

### Electrical Characteristics (T Ambient=25°C unless noted otherwise)

Symbol	Description	MT3508	MT3512	MT3516	Unit	Conditions
VF	Max Instantaneous Forward Voltage		1.2		v	Drop per Bridge element 17.5A
lr	Max DC Reverse Current at Rated DC Blocking Voltage		100		μΑ	Ta= <b>25</b> ℃
R <sub>θ</sub> -лс	Typical Thermal Resistance		2.0		°C/W	
Viso	Isolation Voltage from case to leads		2500		pF	

#### Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- 2. Unit mounted on 11.8" x 11.8" x 0.6" thick (300 x 200 x 15mm) Copper plate

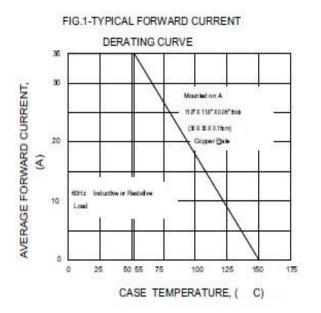


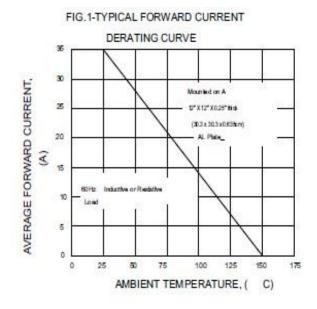


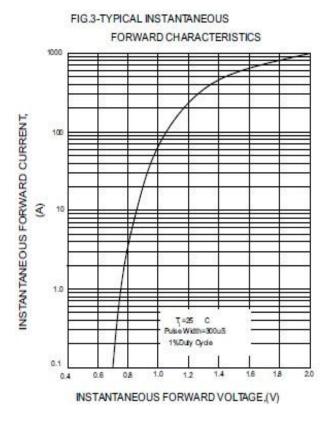


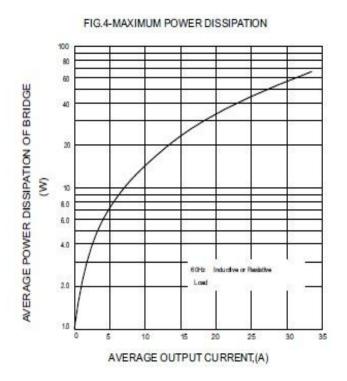
# MT3508 ~ MT3516

### **RATINGS AND CHARACTERISTIC CURVES MT3508 THRU MT3516**





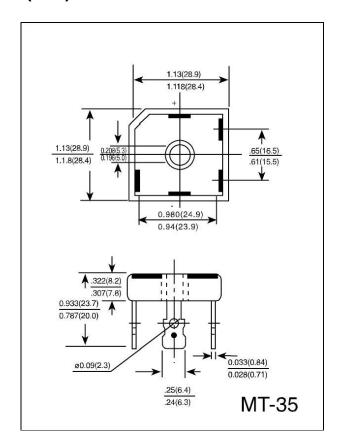






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# **Dimensions in inches (mm)**



### Contact us:

# **US HEADQUARTERS**

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