

MT3510W THRU MT3516W MTW

Three Phase Glass Passivated Bridge Rectifier

Voltage - 1000 to 1600 V Forward Current - 35A

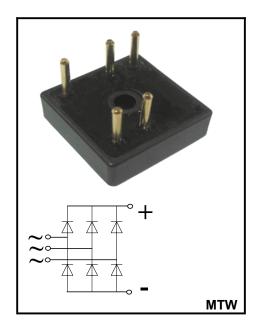
FEATURES

- **♦**Glass passivated chip
- ♦Low reverse leakage current
- ♦High surge current capability
- ♦ Compliant to RoHS directive 2011/65/EU

MECHANICAL DATA

♦Case: MTW

♦Terminals: Solderable per MIL-STD-202, Method 208



Maximum Ratings Parameter @ Ta = 25C unless otherwise noted

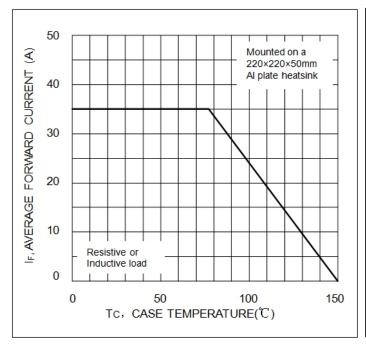
Parameter		Symbols	MT3510W	MT3512W	MT3514W	MT3516W	Units
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	1000	1200	1400	1600	٧
Average rectified output current	with heatsink, Tc=100℃	I _(AV)	35		A		
Peak surge forward current, 8.3ms single half sine- wavesuperimposed on rated load		I _{FSM}	450			Α	
Rating for fusing,1ms <t<8.3ms, Tj=25°C, Rating of per diode</t<8.3ms, 		l²t	840			A ² S	
Junction temperature and Storage temperature		T _j , T _{stg}	-55~+150			°C	
Dielectric strength, terminals to case AC 1 minute		Vids	2.5			ΚV	
Peak Forward Voltage @lr =17.5A		V _F	1.1			V	
Peak Reverse Current VR=VRRM.Pulse measurement Rating of per diode	Tj=25 ℃ Tj=125 ℃	I _R	5 500		uA		
Junction to ambient thermal resistance, without heatsink		R _{0JA}	28			°C/W	
Junction to case thermal resistance, with heatsink		R _{eJC}	0.9 (1)			°C/W	

Device mounted on 124mm x 71mm x 75mm Heat resistance meter radiator

Rev: BDLPJ



Characteristics (Typical)



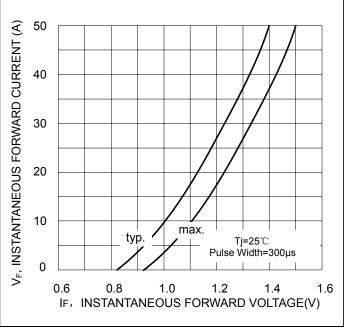


Fig. 1 Forward Current Derating Curve

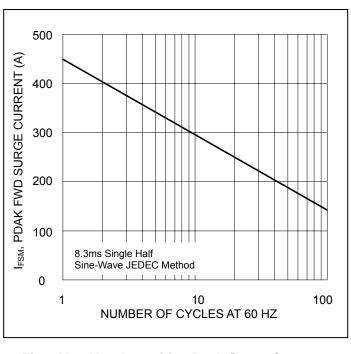


Fig.3 Max Non-Repetitive Peak Surge Current

Fig.2 Typical Forward Characteristics

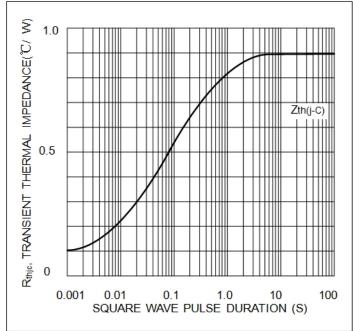
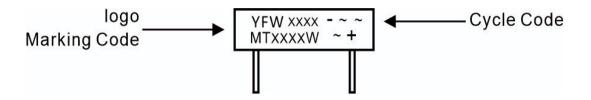


Fig4. Transient thermal impedance

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Marking Diagram

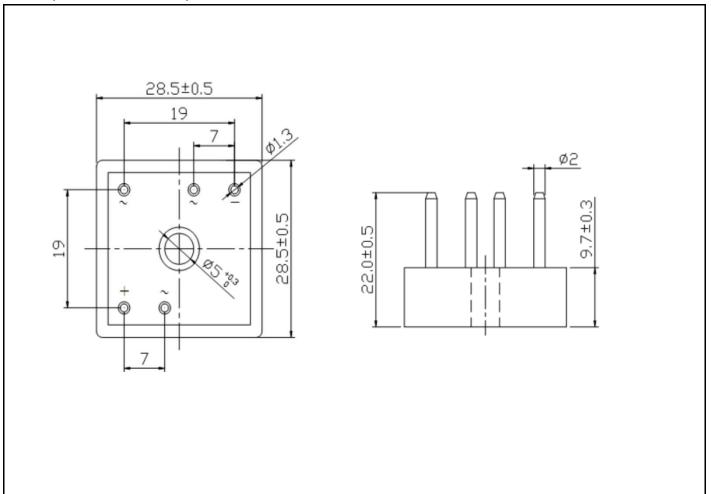


Ordering information

Package	Packing Description	Packing Quantity		
MTW	bulk	50PCS/Box 500PCS/Carton		

Package Dimensions

MTW (Dimensions in mm)



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