

**Three Phase Glass Passivated Bridge Rectifier**

**Voltage - 1000 to 1600 V**

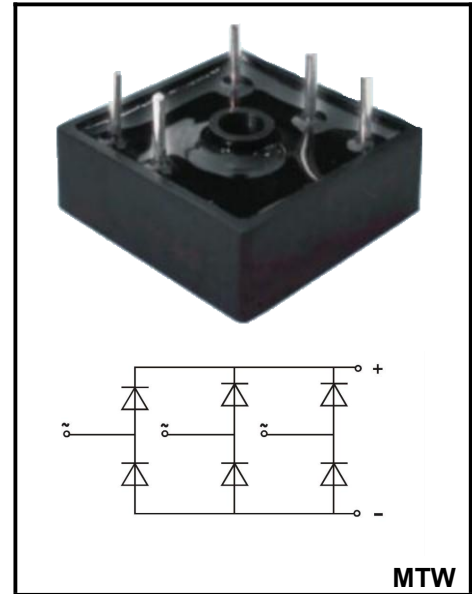
**Forward Current - 35A**

**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

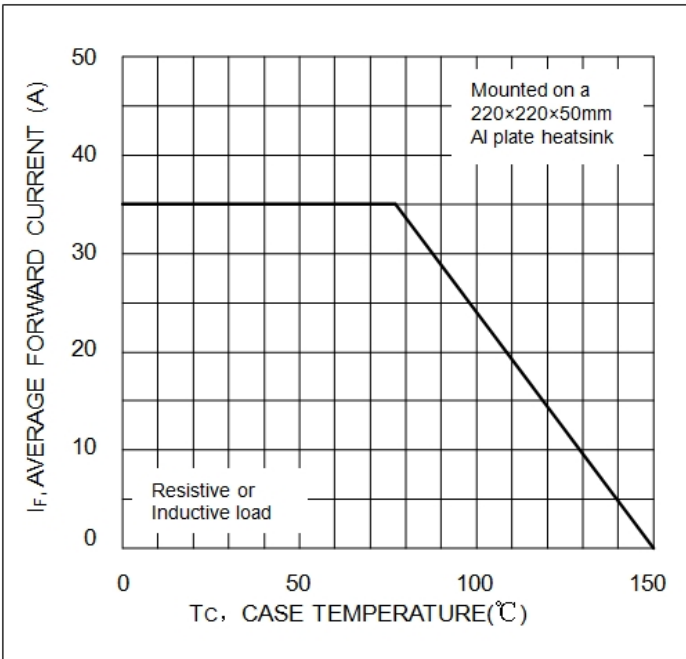


**Maximum Ratings Parameter @ Ta = 25C unless otherwise noted**

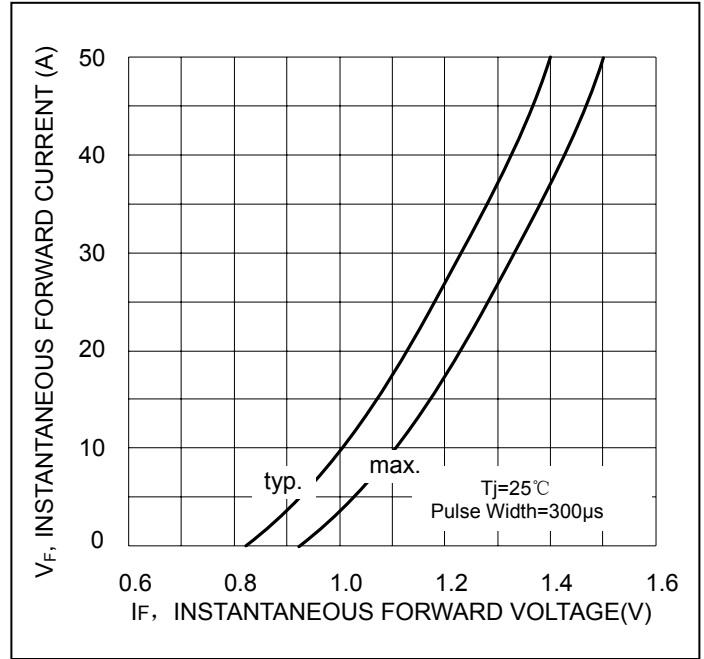
Parameter	Symbols	MT3510W	MT3512W	MT3514W	MT3516W	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	1200	1400	1600	V
Average rectified output current	$I_{(AV)}$	35				A
Peak surge forward current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	450				A
Rating for fusing, 1ms<t<8.3ms, Tj=25°C, Rating of per diode	$I^2t$	840				A <sup>2</sup> S
Junction temperature and Storage temperature	$T_j, T_{stg}$	-55~+150				°C
Dielectric strength, terminals to case AC 1 minute	<b>Vids</b>	2.5				KV
Peak Forward Voltage @If =17.5A	$V_F$	1.1				V
Peak Reverse Current VR=VRRM.Pulse measurement Rating of per diode	$I_R$	5 500				uA
Junction to ambient thermal resistance, without heatsink	$R_{\theta JA}$	28				°C/W
Junction to case thermal resistance, with heatsink	$R_{\theta JC}$	0.9 <sup>(1)</sup>				°C/W

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

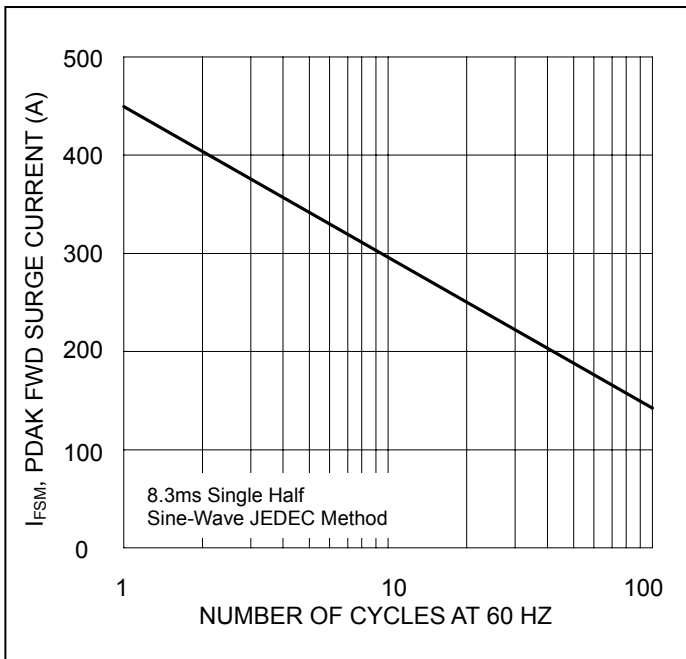
**Characteristics (Typical)**



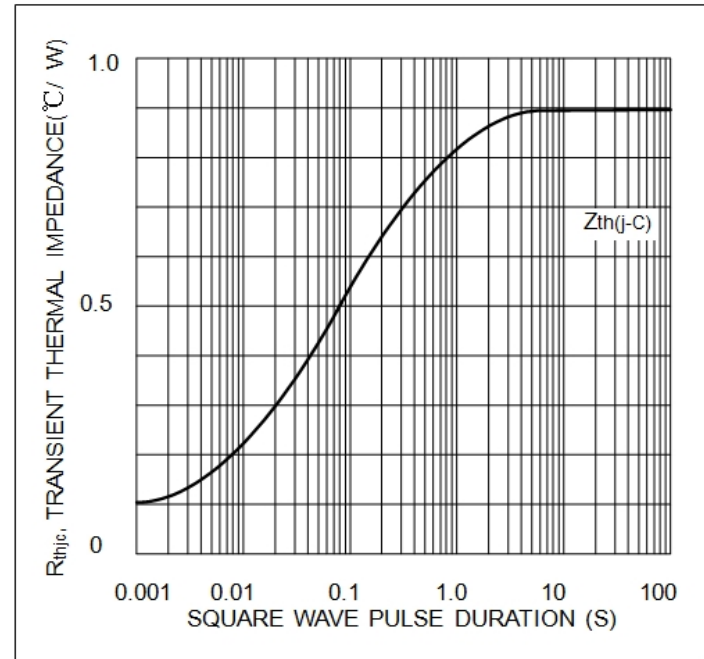
**Fig. 1 Forward Current Derating Curve**



**Fig.2 Typical Forward Characteristics**



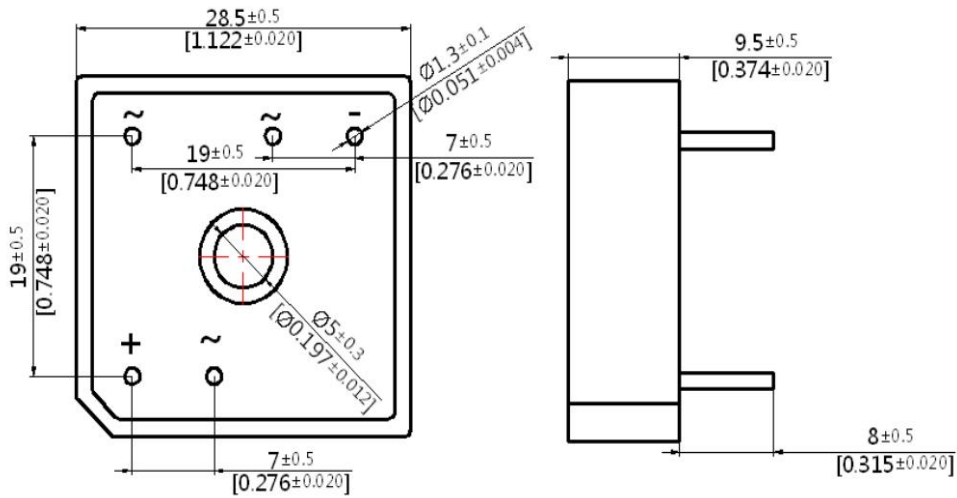
**Fig.3 Max Non-Repetitive Peak Surge Current**



**Fig.4. Transient thermal impedance**

Dimensioned drawing

MTW



### Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
MTW	BOX	50	EIA-481-1

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