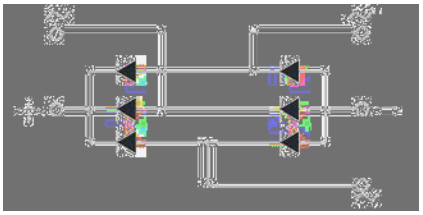
RoHS
COMPLIANT



- UL recognition, file #E230084
- Low thermal resistance
- Glass passivated chip junction
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

General purpose use in AC/DC bridge full wave rectification
for Server Frequency converter Industrial power supply.



- : MT-M
  Molding compound meets UL 94 V-0 flammability rating
- : Gold plated leads, solderable per J-STD-002 and JESD22-B102
- As marked on body

■ (T_a=25 Unless otherwise specified

Device marking code			MT3506M	MT3508M	MT3510M	MT3512M	MT3514M	MT3516M
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	600	800	1000	1200	1400	1600
Maximum RMS Voltage	V_{RMS}	V	420	560	700	840	980	1120
Maximum DC blocking Voltage	V_{DC}	V	600	800	1000	1200	1400	1600
Average rectified output current @60Hz sine wave, R-load With heatsink Tc =100	I_O	A	35.0					
Forward Surge Current (Non-repetitive) @8.3ms, Half-sine wave,1 cycle, Tj=25	I_{FSM}	A	400					
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			800					
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode	I^2t	A^2s	664					
Storage temperature	T_{stg}		-55 ~ +150					
Junction temperature	T_j		-55 ~ +150					
Dielectric strength @ Terminals to case, AC 1 minute	V_{dis}	KV	2.5					
Mounting torque	Tor	kg·cm	10					

■ T_a=25 Unless otherwise specified

Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=17.5A	1.1					
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j =25	5					
			T_j =125	500					
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	150					

■ T_a=25 Unless otherwise specified

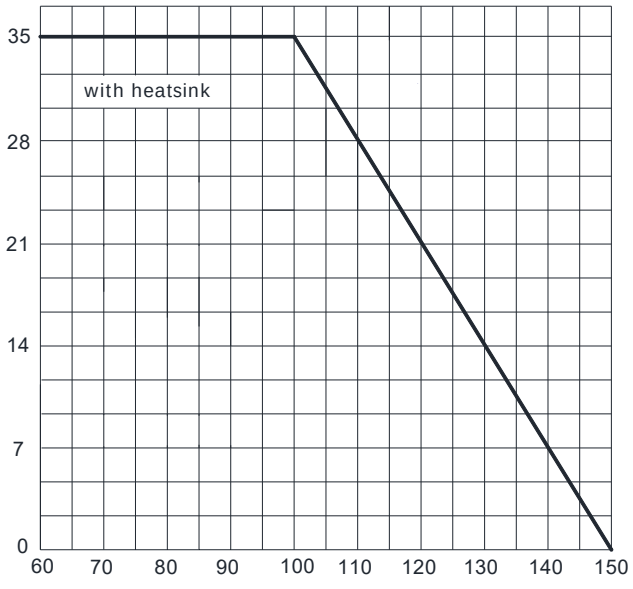
Typical Thermal Resistance	Between junction and case, With heatsink	$R_{\theta J-C}$	/W	0.9					

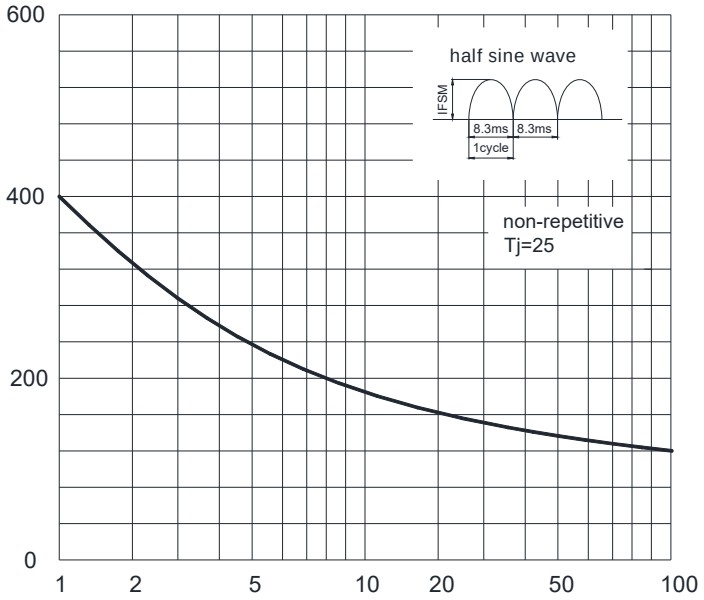
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

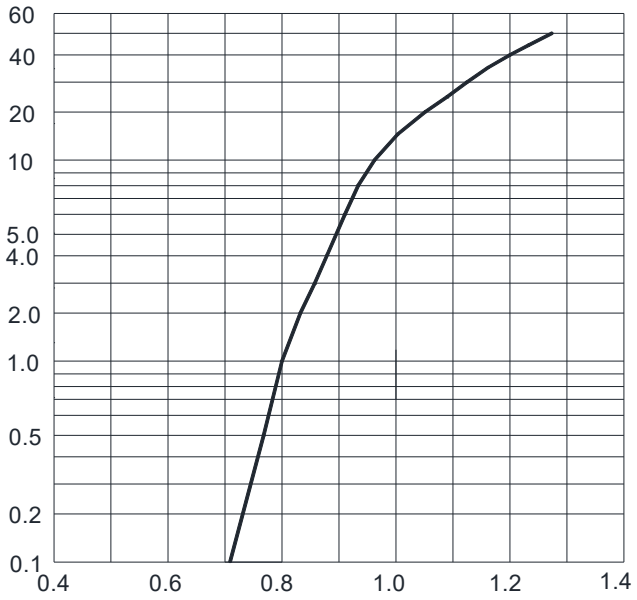
■ (Example)

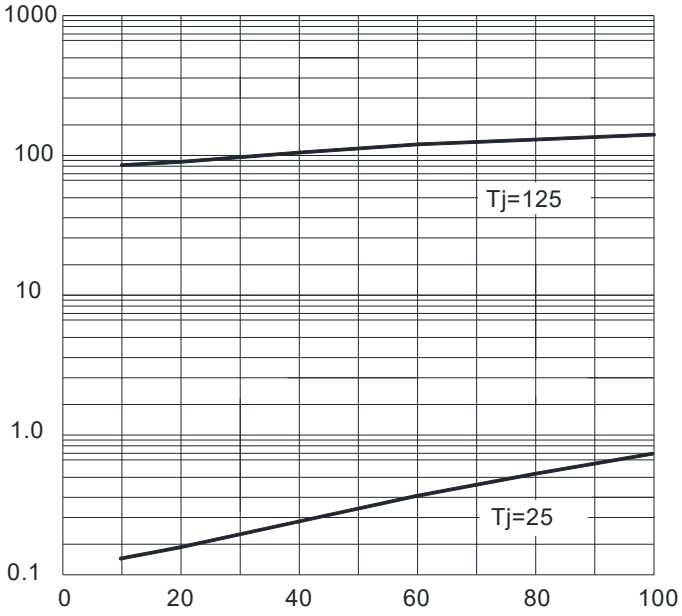
MT3506M ~ MT3516M	A1	Approximate 16	50	50	500	Paper Box

■ (Typical)

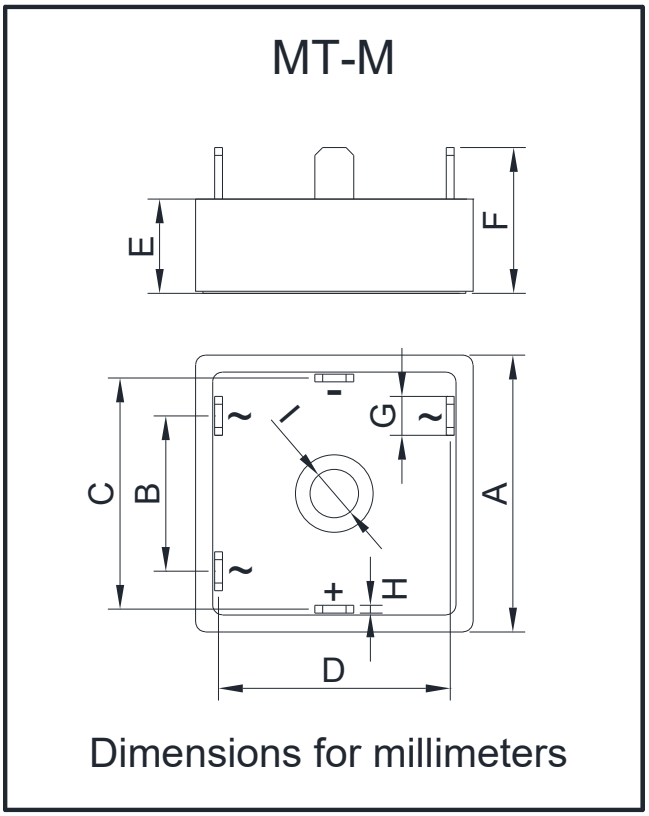








■



A	28.2	28.8
B	15.5	16.5
C	23.3	24.3
D	23.3	24.3
E	9.0	10.0
F	14.5	15.5
G	3.8	4.2
H	0.75	0.85
I	4.5	5.5

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