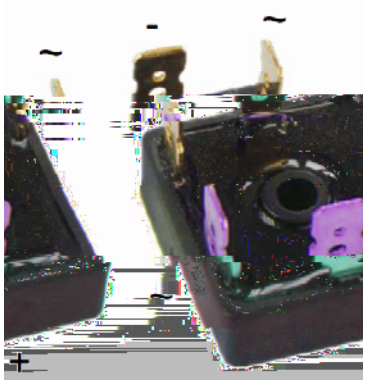
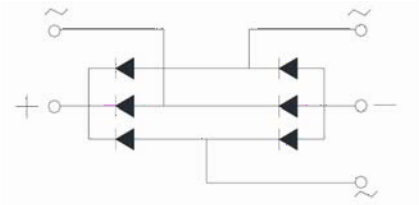
RoHS
COMPLIANT





- 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-B
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- : Au plated leads, solderable per J-STD-002 and JESD22-B102
- As marked on body

■ (T_a=25 Unless otherwise specified

Device marking code			MT3504B	MT3506B	MT3508B	MT3510B	MT3512B	MT3514B	MT3516B
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	400	600	800	1000	1200	1400	1600
Maximum RMS Voltage	V_{RMS}	V	280	420	560	700	840	980	1120
Maximum DC blocking Voltage	V_{DC}	V	400	600	800	1000	1200	1400	1600
Average rectified output current @60Hz sine wave, R-load With heatsink Tc =110	I_O	A	35						
Forward Surge Current (Non-repetitive) @8.3ms,Half-sine wave,1 cycle, Tj=25	I_{FSM}	A	400						
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	Vdis	KV	2.5						
Mounting torque @Recommend torque 5kg cm	Tor	kg cm	8						

■ 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	200				150		

■ T_a=25 Unless otherwise specified

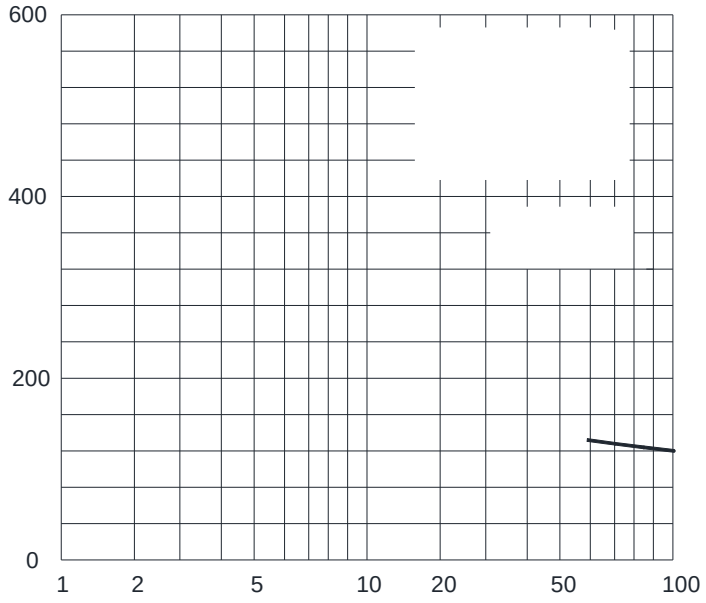
Typical Thermal Resistance	Between junction and case, With heatsink	$R_{\theta J-C}$	/W	0.6						

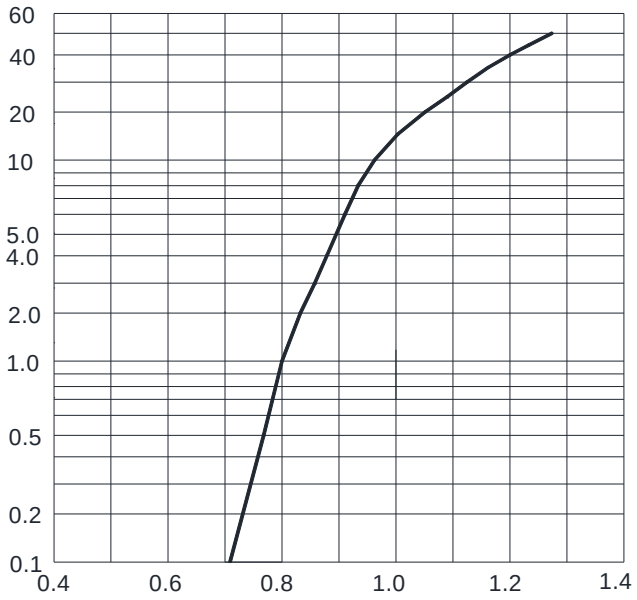
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

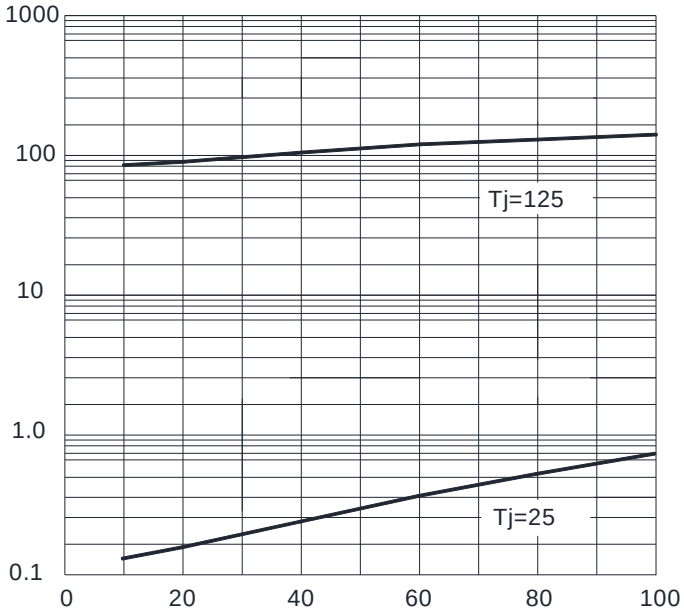
■ (Example)

	A1	Approximate 26	50	50	500	Paper Box

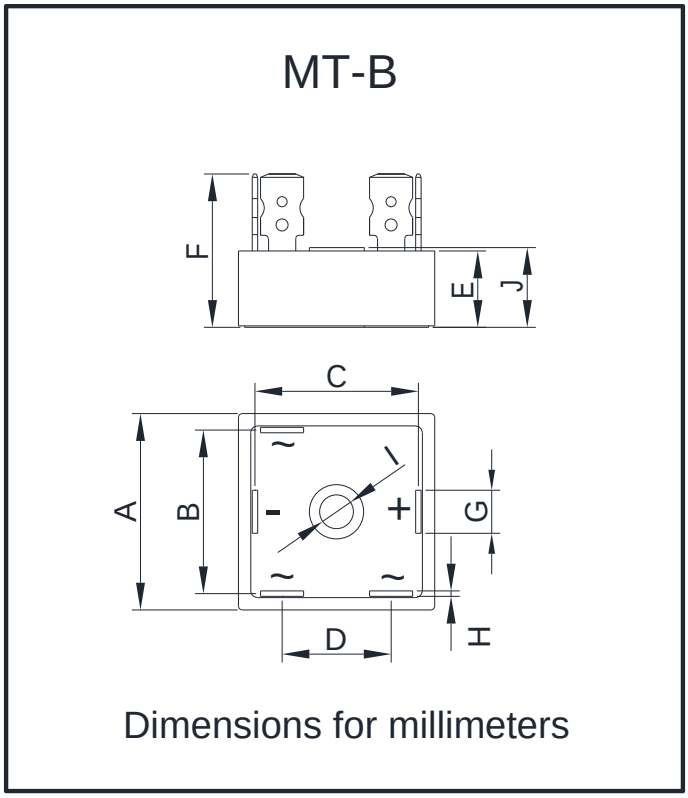
■ (Typical)







■



A	28.0	29.0
B	23.5	24.5
C	23.5	24.5
D	15.5	16.5
E	10.9	11.5
F	22.0	23.0
G	6.2	6.4
H	0.75	0.85
I	4.5	5.5

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