



Typical Applications

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

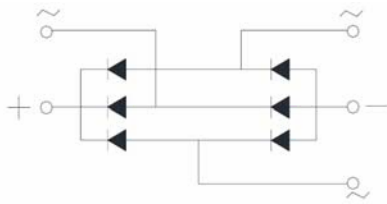
Mechanical Data

Package: MT-B

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

Terminals: Au plated leads, solderable per J-STD-002 and JESD22-B102

Polarity: As marked on body



Maximum Ratings (T_a=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MT5004B	MT5006B	MT5008B	MT5010B	MT5012B	MT5014B	MT5016B
Device marking code			MT5004B	MT5006B	MT5008B	MT5010B	MT5012B	MT5014B	MT5016B
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 With h_h = 50% duty cycle, I_h = 50% of I_h (M 500)

Current squared time @ 1ms ≤ t ≤ 8.3ms T _j =25 °C, Rating of per diode	I ² t	A ² s	1038						
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 @ Recommend torque 5kg cm	Tor	kg cm	8						



MT5004B THRU MT5016B

FIG3: Typical Forward Voltage

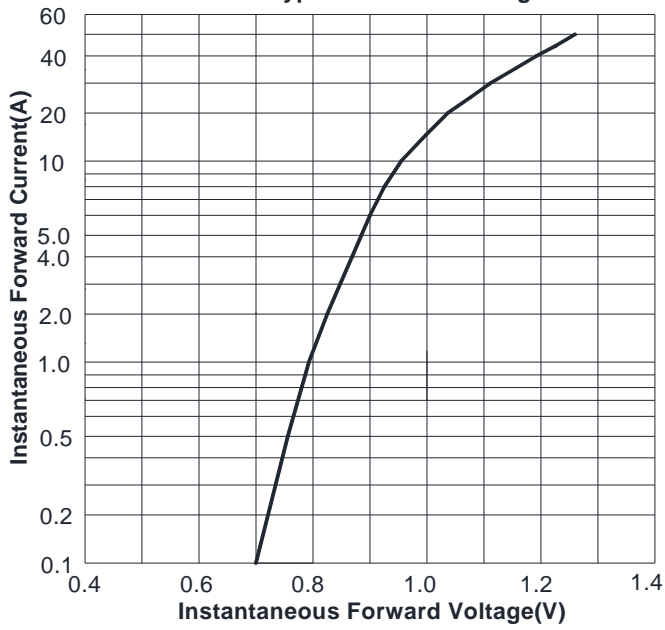
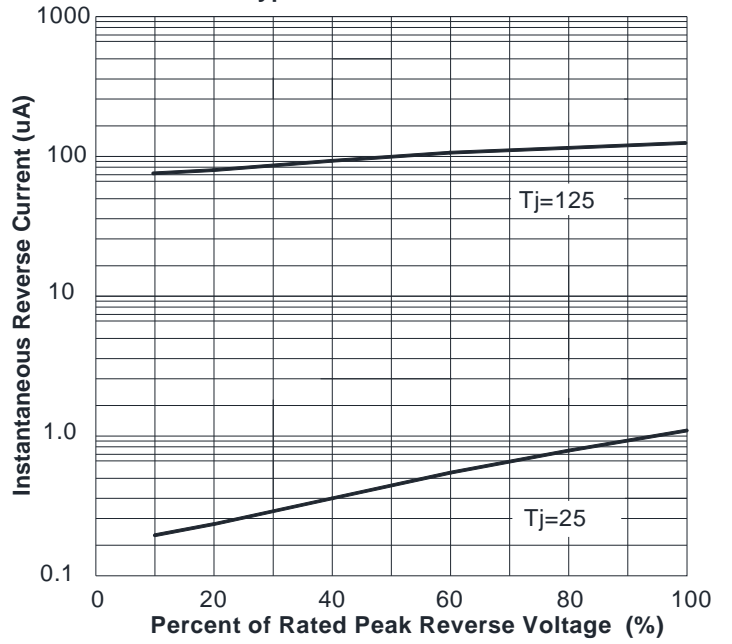
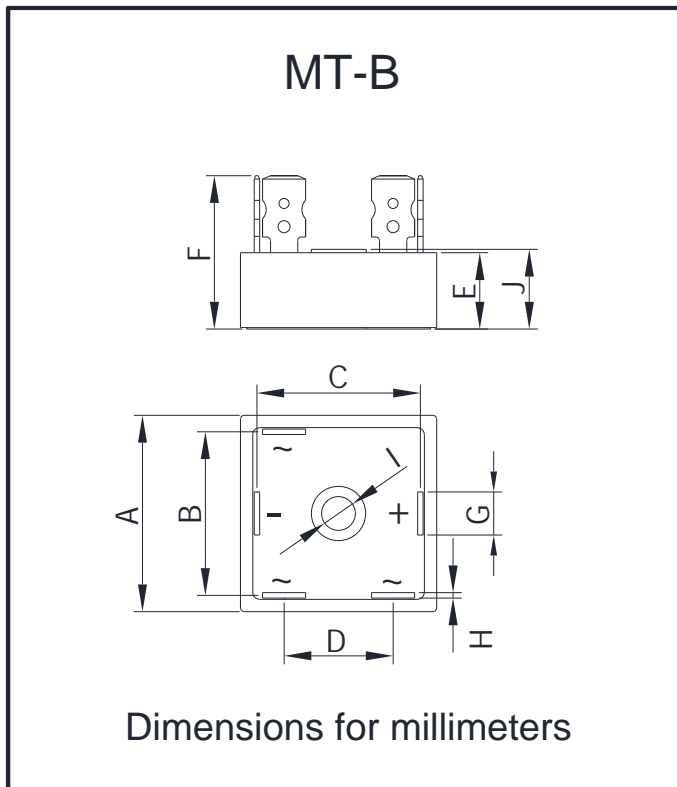


FIG4: Typical Reverse Characteristics



Outline Dimensions



MT-B		
Dim	Min	Max
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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