



Three Phase Bridge Rectifiers



Features

- 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

Typical Applications

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

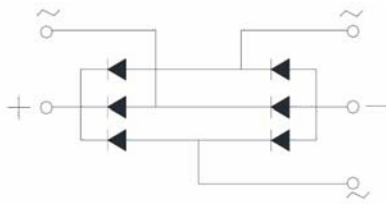
Mechanical Data

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 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MT3504B	MT3506B	MT3508B	MT3510B	MT3512B	MT3514B	MT3516B
Device marking code			MT3504B	MT3506B	MT3508B	MT3510B	MT3512B	MT3514B	MT3516B
Maximum Repetitive Peak Reverse Voltage	VRRM	V	400	600	800	1000	1200	1400	1600
Maximum RMS Voltage	VRMS	V	280	420	560	700	840	980	1120
Maximum DC blocking Voltage	VDC	V	400	600	800	1000	1200	1400	1600
Average rectified output current @60Hz sine wave, R-load	With heatsink T _c =110	IO	A	35					
Forward Surge Current (Non-repetitive) @8.3ms,Half-sine wave,1 cycle, T _j =25	IFSM	A	400						
Current squared time @1ms t 8.3ms T _j =25, Rating of per diode	I ² t	A ² s	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						



MT3504B THRU MT3516B

Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MT3504B	MT3506B	MT3508B	MT3510B	MT3512B	MT3514B	MT3516B
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	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	200				150		





Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.