

MT2504A THRU MT2516A

Three Phase Bridge Rectifiers



Features

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

Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

- Package: MT Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings (Ta=25°C Unless of	otherwise specified)
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PARAMETER	SYMBOL	UNIT	MT2504A	MT2506A	MT2508A	MT2510A	MT2512A	MT2514A	MT2516A
Device marking code			MT2504A	MT2506A	MT2508A	MT2510A	MT2512A	MT2514A	MT2516A
Repetitive Peak Reverse Voltage	VRRM	V	400	600	800	1000	1200	1400	1600
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink, Tc=55℃	lo	А		25					
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25℃	IFSM	A	400						
Current Squared Time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode	l ² t	A ² S	660						
Storage Temperature	⊤stg	°C	-55~+150						
Junction Temperature	Тј	°C	-55 ~+150						
Dielectric Strength, Terminals to case, AC 1 minute	Vdis	кν	2.5						
Mounting Torque	TOR	kg cm	10						

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MT2504A	MT2506A	MT2508A	MT2510A	MT2512A	MT2514A	MT2516A
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=12.5A				1.2			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM				10			

■Thermal Characteristics (Ta=25 °C Unless otherwise specified)

PA	RAMETER	SYMBOL	UNIT	MT2504A	MT2506A	MT2508A	MT2510A	MT2512A	MT2514A	MT2516A
Thermal Resistance	Between junction and case, With heatsink	R θ J-C	°C /W				1.7			



Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MT2504A~MT2516A	A1	Approximate 17.5	50	50	500	Paper Box

Characteristics (Typical)





FIG2:Surge Forward Current Capability





FIG4:Typical Reverse Characteristics





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	МТ						
Dim	Min	Max					
А	23.3	24.3					
В	23.3	24.3					
С	28.2	28.8					
D	15.5	16.5					
E	/	25					
F	9	10					
G	6.2	6.4					
Н	0.75	0.85					



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