

Three Phase Bridge Rectifiers

Features

- UL recognition, file #E230084
- 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.

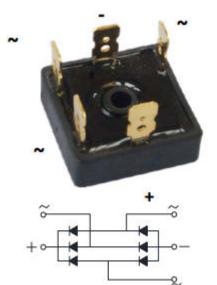
Mechanical Data

• 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 otherwise specified)

Maximum Ratings (1a-20 C offices official specified)									
PARAMETER	SYMBOL	UNIT	MT1504A	MT1506A	MT1508A	MT1510A	MT1512A	MT1514A	MT1516A
Device marking code			MT1504A	MT1506A	MT1508A	MT1510A	MT1512A	MT1514A	MT1516A
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℃	Ю	Α	15						
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25℃	IFSM	Α	300						
Current Squared Time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode	l ² t	A ² S	375						
Storage Temperature	T _{stg}	$^{\circ}\!$	-55~+150						
Junction Temperature	Tj	$^{\circ}$	-55~+150						
Dielectric Strength, Terminals to case, AC 1 minute	Vdis	KV	2.5						
Mounting Torque	TOR	kg⋅cm	10						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MT1504A	MT1506A	MT1508A	MT1510A	MT1512A	MT1514A	MT1516A
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=7.5A				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)

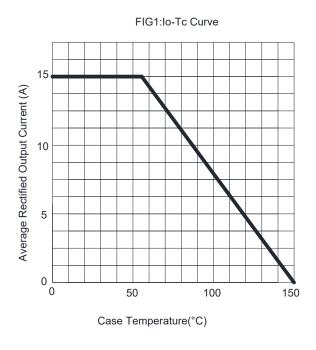
P.	ARAMETER	SYMBOL	UNIT	MT1504A	MT1506A	MT1508A	MT1510A	MT1512A	MT1514A	MT1516A
Thermal Resistance	Between junction and case, With heatsink	R θ J-C	°C/W				3.2			

MT1504A THRU MT1516A

■ Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MT1504A~MT1516A	A1	Approximate 17.5	50	50	500	Paper Box

■ Characteristics (Typical)



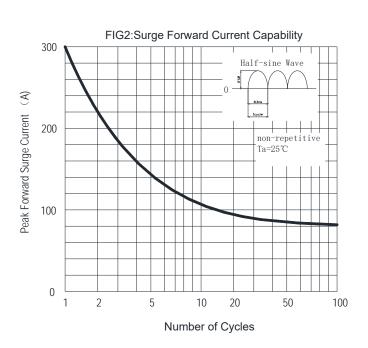
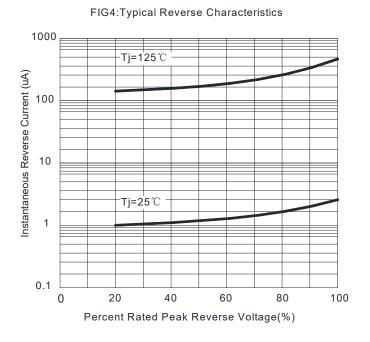
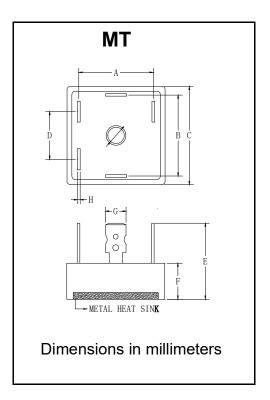


FIG3:Instantaneous Forward Voltage 60 Ta=25℃ 20 Instantaneous Forward Current (A) 10 5.0 1.0 0.5 0.2 0.4 0.6 0.8 1.0 1.2 1.4 Instantaneous Forward Voltage (V)





■ Outline Dimensions



MT						
Dim	Min	Max				
Α	23.3	24.3				
В	23.3	24.3				
С	28.2	28.8				
D	15.5	16.5				
Е	/	25				
F	9	10				
G	6.2	6.4				
Н	0.75	0.85				



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