



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, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for { S N J t L J 2 0 S N

Mechanical Data

- Package: MT-M
- Molding compound meets UL 94 V-0 flammability rating
- Terminals: Gold plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: As marked on body

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

PARAMETER	SYMBOL	UNIT
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MT5006M THRU MT5016M

Electrical Characteristics $T_a = 25^\circ\text{C}$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MT5006M	MT5008M	MT5010M	MT5012M	MT5014M	MT5016M
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM} = 25\text{A}$	1.15					
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	$T_j = 25^\circ\text{C}$	5					
			$T_j = 125^\circ\text{C}$	500					
Typical junction capacitance	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0V	185					

Thermal Characteristics $T_a = 25^\circ\text{C}$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MT5006M	MT5008M	MT5010M	MT5012M	MT5014M	MT5016M
Typical Thermal Resistance	Between junction and case With heatsink	$R_{\theta JA}$	$^\circ\text{C/W}$	0.9					

Note: Device mounted on 7.5mm x 45mm x 5.0mm Aluminum Plate Heatsink.

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MT5006M ~ MT5016M	A1	Approximate 16	50	50	500	Paper Box

Characteristics (Typical)

FIG1: I_o - T_c Curve

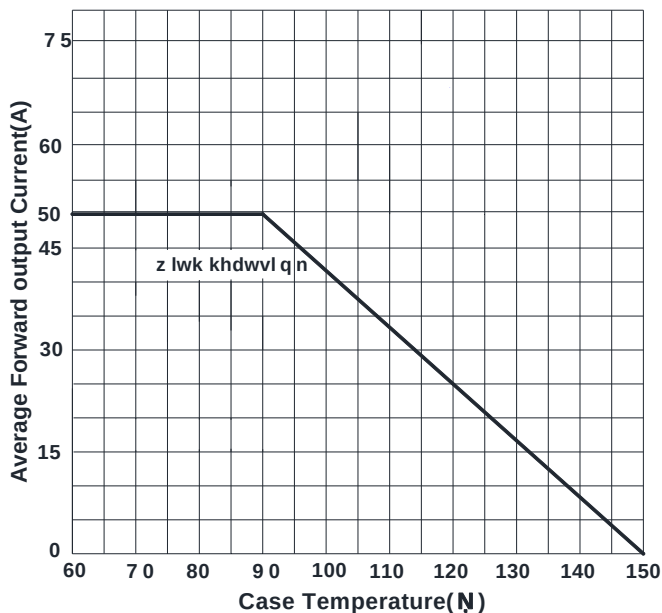
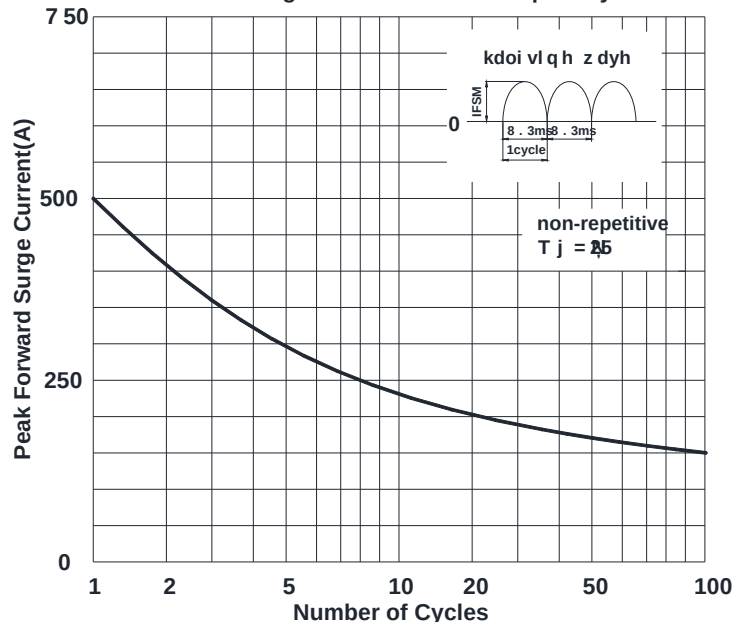


FIG2: Surge Forward Current Capability





Outline Dimensions

MT-M		
Dim	Min	Max
A	28 . 2	28 . 8
B	15 . 5	16 . 5
C	23 . 3	24 . 3
D	23 . 3	24 . 3
E	9 . 0	10 . 0
F	14 . 5	15 . 5
G	3 . 8	4 . 2

MT5006M THRU MT5016M

Disclaimer

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