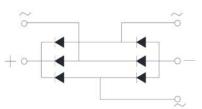


Three Phase Bridge Rectifiers





Features

- UL recognition, file #E230084
- Thin single in-line package
- 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
 Molding compound meets UL 94 V-0 flammability
 rating

• **Terminals**: Ag 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	MT5016D	
Device marking code				MT5016D	
Maximum Repetitive Peak Reverse Voltage		VRRM	٧	1600	
Maximum RMS Voltage		VRMS	V	1120	
Maximum DC blocking Voltage		VDC	V	1600	
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =100°C	10	Α	50	
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25°C		· IFSM	А	600	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				1200	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	A ² s	1494	
Storage temperature		T _{stg}	°C	-55 ~ +150	
Junction temperature		Tj	°	-55 ~ +150	
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2.5	
Mounting torque @Recommend torque: 5kg·cm		Tor	kg∙ cm	8	

MT5016D

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MT5016D
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=25A	1.1
Maximum DC reverse current at rated DC	IR	μΑ	T _j =25°C	5
blocking voltage per diode			T _j =125°C	500
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	225

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

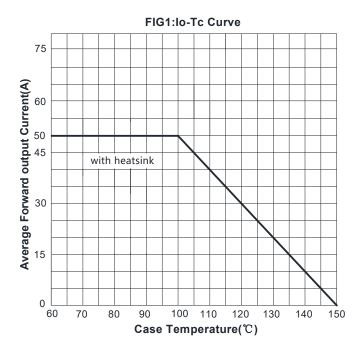
PARAMETER		SYMBOL	UNIT	MT5016D
Typical Thermal Resistance	Between junction and case, With heatsink	RøJ-C	°C/W	0.7

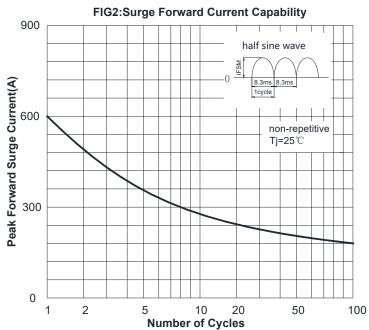
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PF	REFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
	MT5016D	A1	Approximate 17.5	50	50	500	Paper Box

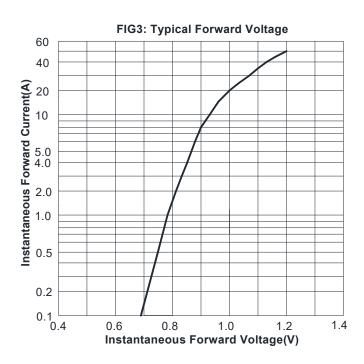
■ Characteristics (Typical)

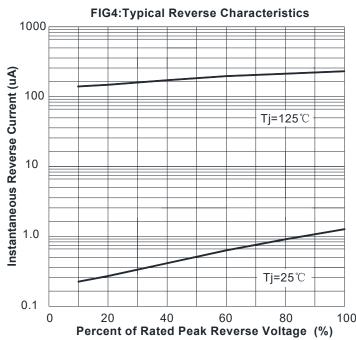




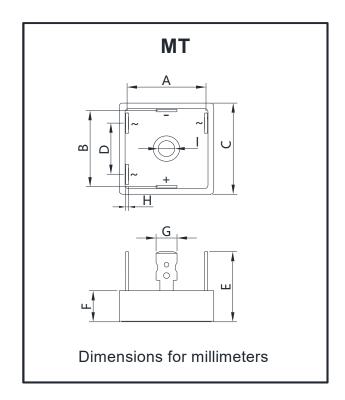








■ Outline Dimensions



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	1	25				
F	9.0	10.0				
G	6.2	6.4				
Н	0.75	0.85				
Ī	4.5	5.5				



MT5016D

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