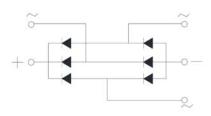




# Three Phase Bridge Rectifiers





### **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
 Molding compound meets UL 94 V-0 flammability
 rating

• **Terminals**: Au 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	MT5018A	
Device marking code				MT5018A	
Maximum Repetitive Peak Reverse Voltage		VRRM	V	1800	
Maximum RMS Voltage		VRMS	V	1260	
Maximum DC blocking Voltage		VDC	V	1800	
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =90°C	IO	Α	50	
Forward Surge Current (Non-repetitive) @8.3ms,Half-sine wave,1 cycle, Tj=25°C		IFSM	А	500	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				1000	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	A <sup>2</sup> s	1038	
Storage temperature		T <sub>stg</sub>	°C	-55 ~ +150	
Junction temperature		Tj	°C	-55 ~ +150	
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2.5	
Mounting torque @Recommend torque: 5kg·cm		Tor	kg∙ cm	8	

## MT5018A

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MT5018A
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=25A	1.15
Maximum DC reverse current at rated DC			T <sub>j</sub> =25°C	5
blocking voltage per diode		μA	T <sub>j</sub> =125°C	500
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	185

**■Thermal Characteristics** (T<sub>a</sub>=25°C Unless otherwise specified)

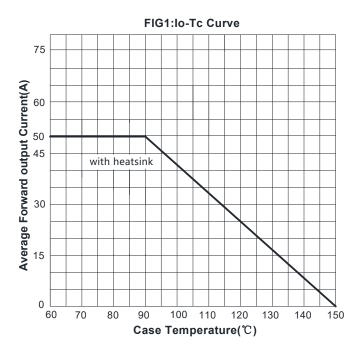
P	ARAMETER	SYMBOL	UNIT	MT5018A
Typical Thermal Resistance	Between junction and case, With heatsink	RøJ-C	°C/W	0.8

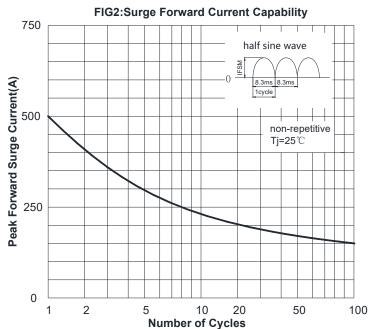
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

**■Ordering Information** (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MT5018A	A1	Approximate 17.5	50	50	500	Paper Box

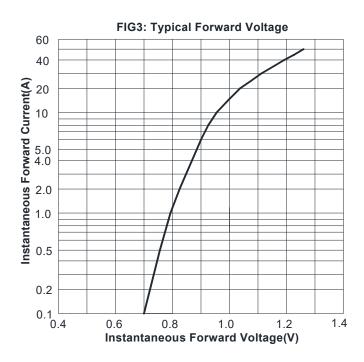
### **■ Characteristics** (Typical)

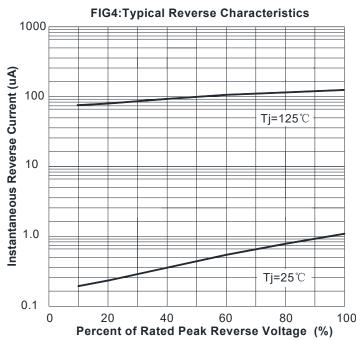




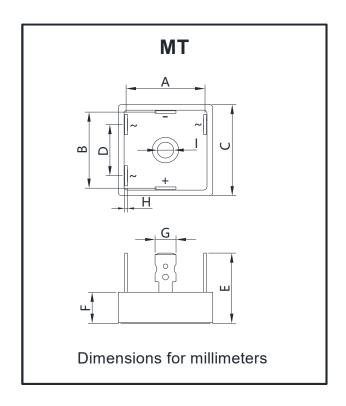








### **■ Outline Dimensions**



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				
I	4.5	5.5				



### MT5018A

#### **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 with 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:// <a href="http://www.21yangjie.com">www.21yangjie.com</a>, or consult your nearest Yangjie's sales office for further assistance.