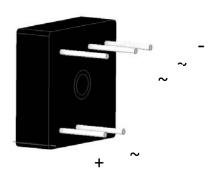
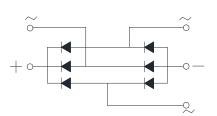


# **Three Phase Bridge Rectifiers**





## **Features**

- UL recognition, file #E230084
- Glass passivated chip junction
- Low reverse leakage current
- 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-W
 Malding appropriate and appropriate and

Molding compound meets UL 94 V-0 flammability rating

• **Terminals**: Tin 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	MT5006W	MT5008W	MT5010W	MT5012W	MT5014W	MT5016W	
Device marking code			MT5006W	MT5008W	MT5010W	MT5012W	MT5014W	MT5016W	
Maximum Repetitive Peak Reverse Voltage	VRRM	V	600	800	1000	1200	1400	1600	
Maximum RMS Voltage	VRMS	V	420	560	700	840	980	1120	
Maximum DC blocking Voltage	VDC	V	600	800	1000	1200	1400	1600	
Average rectified output current @60Hz sine wave, R-load With heatsink Tc =60°C	Ю	А	50						
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25°C		•	500						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM	A 1000							
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l <sup>2</sup> t	A²s	1037.5						
Storage temperature	Tstg	℃	-55 ~ <b>+</b> 150						
Junction temperature	Tj	°C	°C		-55 ~	-55 ~ +150			
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	KV	2.5						
Mounting torque Tor		kg∙cm	8						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MT5006W	MT5008W	MT5010W	MT5012W	MT5014W	MT5016W
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=25A	1.15					
Maximum DC reverse current			T <sub>j</sub> =25°C	5					
at rated DC 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)

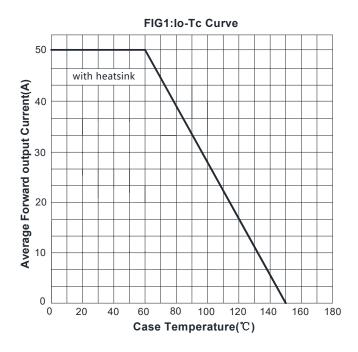
	PARAMETER	SYMBOL	UNIT	MT5006W	MT5008W	MT5010W	MT5012W	MT5014W	MT5016W
Thermal	Between junction and ambient, Without heatsink		°C/W	24.0					
Resistance	Between junction and case, With heatsink	R <sub>0</sub> J-C	C/VV			0.	85		

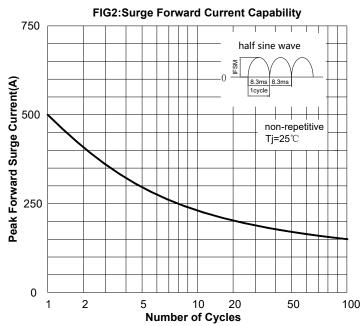
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

**■Ordering Information** (Example)

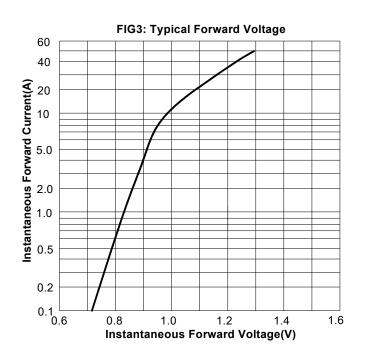
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MT3506W – MT3516W	A1	Approximate 17.7	50	50	500	Paper Box

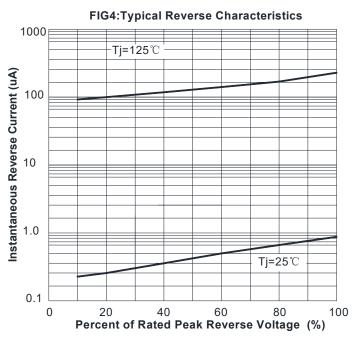
## **■ Characteristics** (Typical)



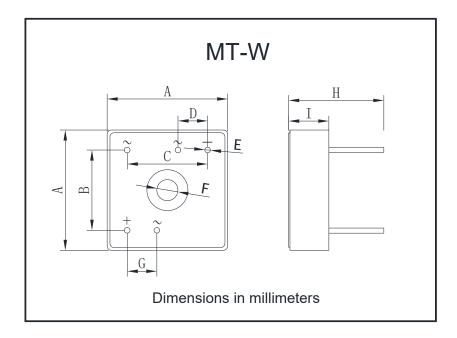








## **■ Outline Dimensions**



MT-W						
Dim	Min	Max				
Α	28.0	29.0				
В	18.5	19.5				
С	18.5	19.5				
D	6.5	7.5				
E	1.1	1.5				
F	4.5	5.5				
G	6.5	7.5				
Н	22.0	24.0				
I	9.2	10.2				



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