

ULTRAFAST RECOVERY RECTIFIERS

Reverse Voltage - 300 V Forward Current - 40 A

FEATURES

- ♦High speed switching capability
- ♦High current capability
- High forward surge capability
- ♦Low power losses, High efficiency
- ♦High reliability
- ♦For use in low voltage, high frequency inverters

MECHANICAL DATA

♦Case: Molded plastic ♦Polarity: As marked ♦Mounting Position: Any

Molded Plastic: UL Flammability Classification Rating 94V-0 Lead free in compliance with EU RoHS 2011/65/EU directive Solder bath temperature 275℃ maximum,10s per JESD 22-

B106

Primary Characteristic

1 Times y Characterious				
lo	2*20A			
V _{RRM}	300V			
Ігѕм	200A			
V _F	1.0V			
T _J Max	175°C			

TO-247/PT TO-247S/PTS

PIN 1 O PIN 2

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified

Characteristics		Symbol	Value	Unit	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	300	V	
Working Peak Reverse Voltage		V _{RWM}	210	V	
Maximum DC Blocking Voltage		V _{DC}	300	V	
Maximum Average Forward Rectified Current	Per Leg		20		
	Total	lo [40	Α	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		FSM	200	А	
Operating Temperature Range		TJ	175	°C	
Storage Temperature Range		T _{STG}	-40 to +175	°C	
Typical Thermal Resistance (Note1)		R _{e JC}	2	°C/W	

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

Electrical Characteristics (Per Leg) unless otherwise specified

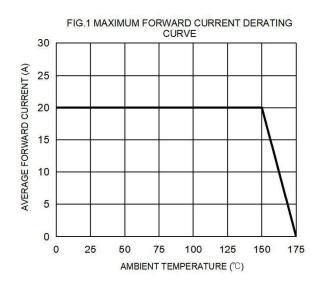
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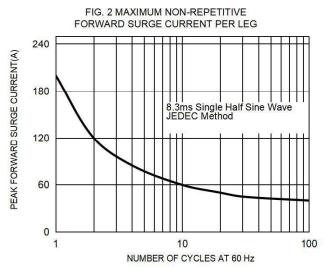
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
	TA=25°C		0.85	-	
at I⊧=10A	TA=125°C		0.67	-	
at I _F =20A	TA=25°C	V _F	0.92	0.96	V
	TA=125°C		0.75	-	
	TA=25°C		0.2	2	μΑ
Maximum Reverse Current at V _R =300V	TA=125°C	I R	15	-	μΑ
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A,		Trr	-	45	ns

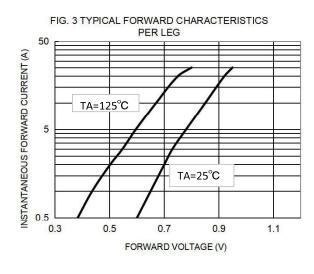
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

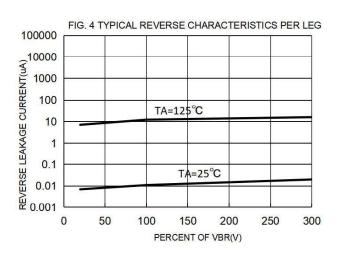


RATINGS AND CHARACTERISTIC CURVES



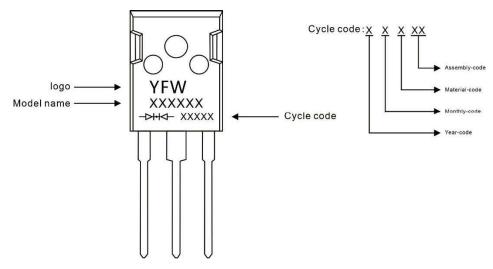








Marking Diagram

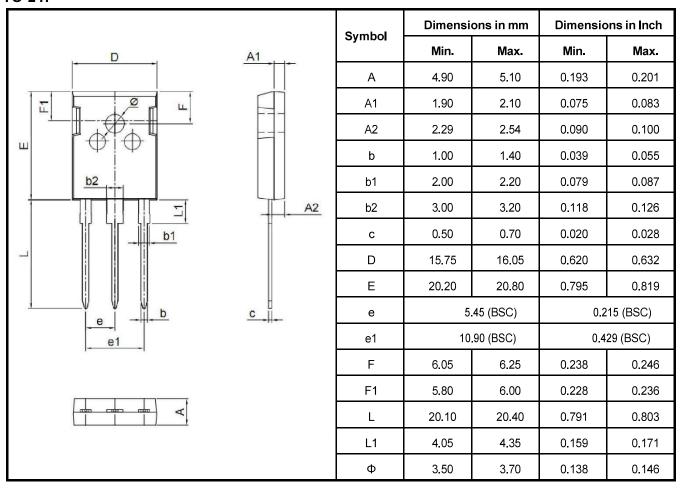


Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MUR4030PT	TO-247	0.209oz(5.93g)	30pcs/tube	600PCS/Box 2400PCS/Carton

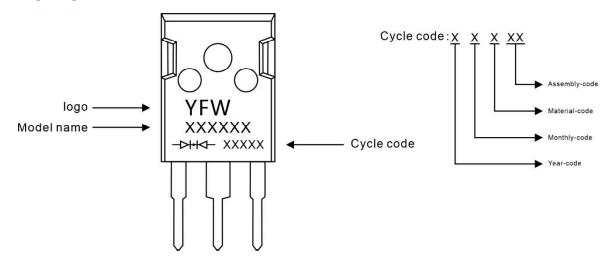
Package Dimensions

TO-247





Marking Diagram

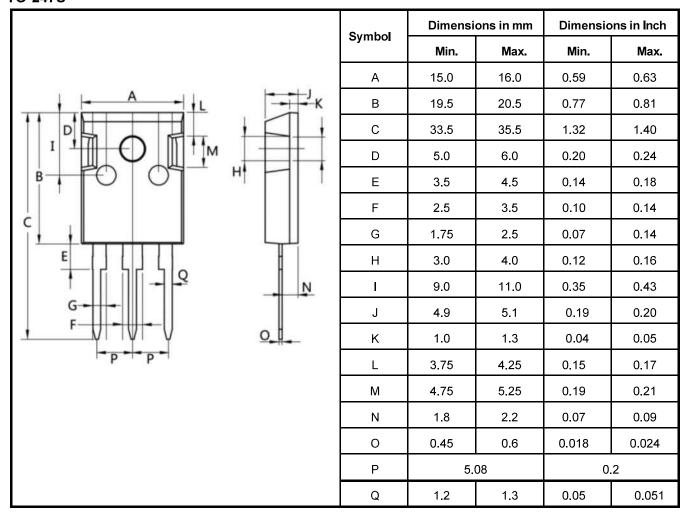


Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MUR4030PTS	TO-247S	0.158oz(4.48g)	30pcs/tube	600PCS/Box 2400PCS/Carton

Package Dimensions

TO-247S





Disclaimer

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