



High Efficiency Rectifiers Reverse Voltage - 1000V Forward Current - 40A

Feaures

- ♦Glass passivated chip junctions
- ♦High Speed recovery time for switching mode application
- **♦**High Forward Surge Capability
- **♦Low Reverse Current**
- ♦Lead free in compliance with EU RoHS 2011/65/EU directive

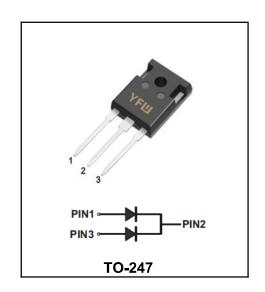


♦Leads: Solderable per mil-std-202, Method 208

♦Polarity: as marked

Mounting torque: 5 in-lbs maximum

♦Terminals: Puretin plated



Maximum Ratings & Electrical Characteristics

Rating	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V _{RRM}	1000	<
Maximum RMS voltage	V _{RMS}	700	v
DC Blocking Voltage	V _{DC}	1000	٧
Average Forward Current per device per diode	l _F	40 20	А
Max.Forward Surge Current ,8.3ms single half sine-wave superimposed on rated load	I _{FSM}	500	A
Typical Forward Voltage at I _F =20A	V _F	2.0	٧
$ \begin{array}{ccc} \text{Max. DC Reverse Current at} & & T_{\text{A}} = 25^{\circ}\!$	I _R	5 250	μΑ
Typical Reverse Recovery Time (Note 1)	T _{RR}	100	nS
Typical Thermal Resistance(Note 2)	R _{⊙ -JC}	1.5	°C/ W
Operating Junction Temperature Range	TJ	-55 to +150	င
Storage Temperature Range	T _{STG}	-55 to +150	င

NOTES:

- 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A.
- 2. Thermal resistance from junction to case.



Ratings and Characteristic Curves

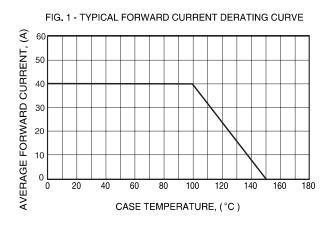
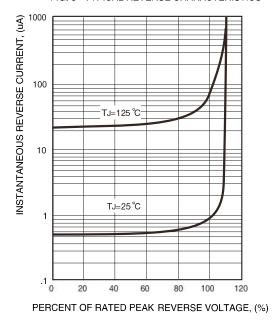


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PEAK FORWARD SURGE CURRENT, (A) 750 8.3ms Single Half Sine Wave JEDEC method TJ =25°C 600 450 300 150 0

NUMBER OF CYCLES AT 60Hz

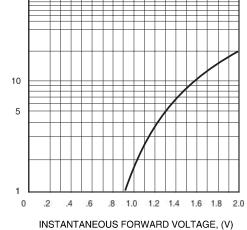
FIG. 4 - TYPICAL INSTANTANEOUS FORWARD

FIG. 3 - TYPICAL REVERSE CHARACTERISTICS



CHARACTERISTICS 100

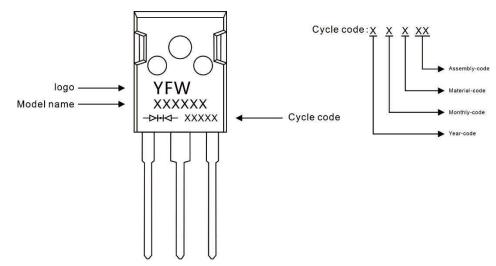
INSTANTANEOUS FORWARD CURRENT, (A)



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Marking Diagram

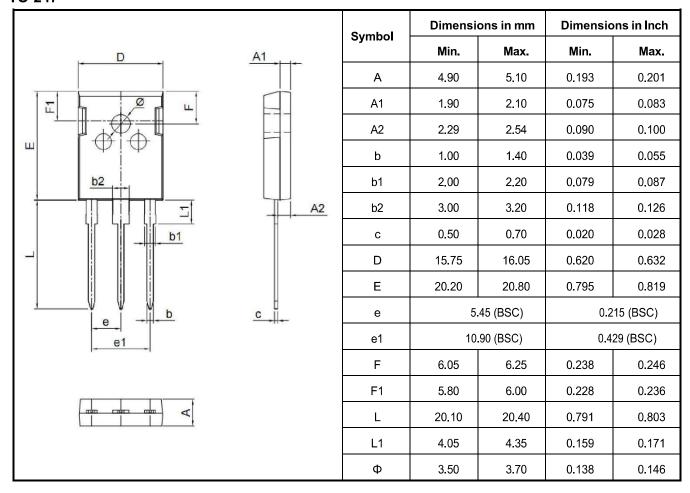


Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MUR40100SPT	TO-247	0.209oz(5.93g)	30pcs/tube	600PCS/Box 2400PCS/Carton

Package Dimensions

TO-247





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