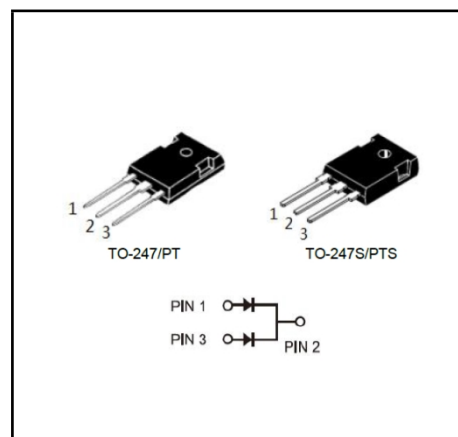


ULTRAFST RECOVERY RECTIFIERS

Reverse Voltage -400 V

Forward Current - 30 A



FEATURES

- ◆High speed switching capability
- ◆High current capability
- ◆High forward surge capability
- ◆Low power losses , High efficiency
- ◆For use in low voltage, high frequency inverters
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- ◆Case: TO-220AC TO-220FAC TO-263/DC
- ◆Solder bath temperature 275°C maximum, 10s per JESD22-106

Primary Characteristic

I_o	2*15A
V_{RRM}	400V
I_{FSM}	320A
V_F	0.91V
T_J Max	150°C

Maximum Ratings (Per Leg) at $T_a=25^{\circ}\text{C}$ unless otherwise specified

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	400	V
Maximum RMS voltage	V_{RMS}	400	V
Maximum DC Blocking Voltage	V_{DC}	400	V
Maximum Average Forward Rectified Current	Per Leg	15	A
	Total	30	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I_{FSM}	320	A
Operating Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-40 ~ +150	°C
Typical Thermal Resistance (Note1)	$R_{\theta JA}$ / $R_{\theta JC}$	2	°C/W

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

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbols	Value		Units
Forward Voltage Drop(Note2)		V _F	Typ	Max	V
at IF=3A	TA=25°C		0.84	-	
	TA=125°C		0.68	-	
at IF=5A	TA=25°C		0.90	-	
	TA=125°C		0.74	-	
at IF=15A	TA=25°C		1.06	1.39	
	TA=125°C		0.90	-	
Maximum Reverse Current at V _R =400V	TA=25°C	I _R	0.10	1	uA
	TA=125°C		10	-	uA
Maximum Reverse Recovery Time at IF=0.5A, IR=1A, IRR=0.25A		T _{RR}	-	35	nS

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

RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

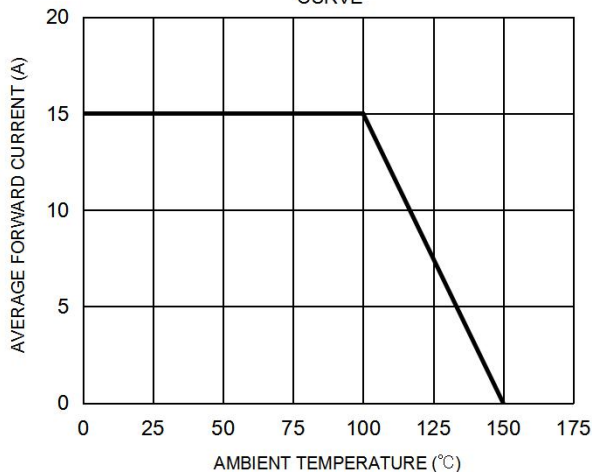


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

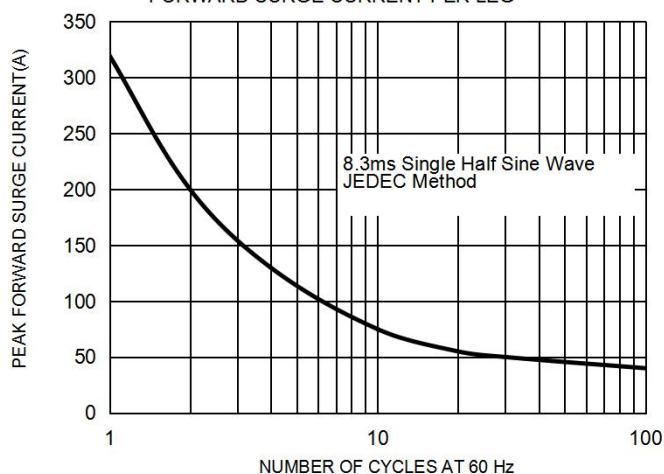


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

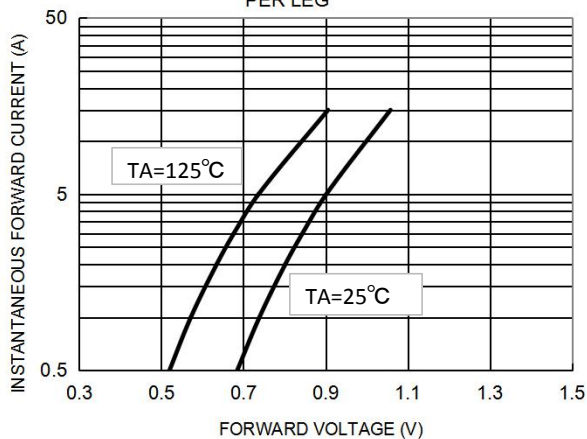
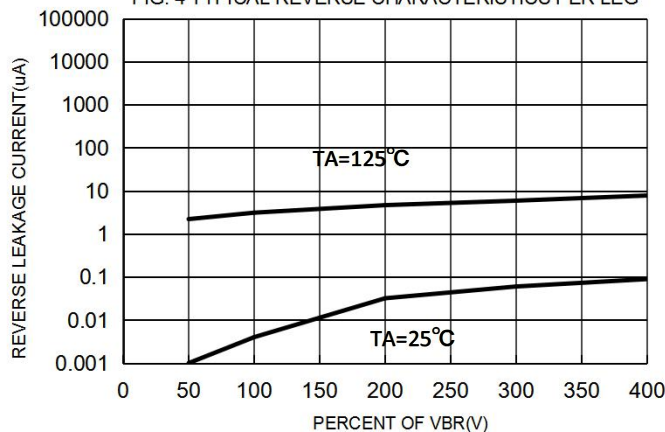
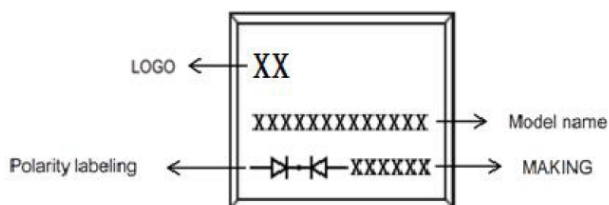


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



Marking on the body



MAKING:

X X X X X X

- Assembly code (e.g : AB,CD,.....)
- Material -Code (H:No halogen A:ordinary)
- Week - code (WW:01-52)
- Year - code (Y: Last digit of year & A:2012,B:2013....)

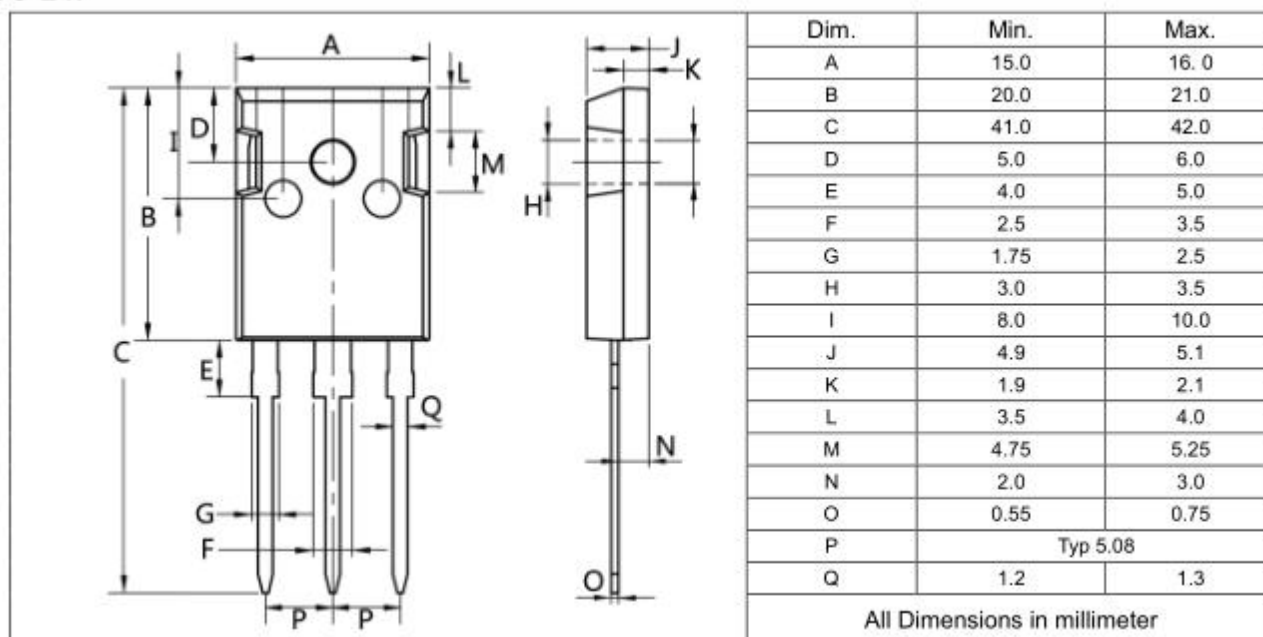
Ordering information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MUR3040PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 2400pcs/carton
MUR3040PTS	TO-247S	0.158oz(4.48g)	30 pcs / tube	600pcs/box 2400pcs/carton

Note: For Halogen Free molding compound, add "H" suffix to part number above.

Package Outline Dimensions millimeters

TO-247



TO-247S

