

Trench MOS Barrier Schottky Rectifier

Reverse Voltage - 150 V

Forward Current - 60 A

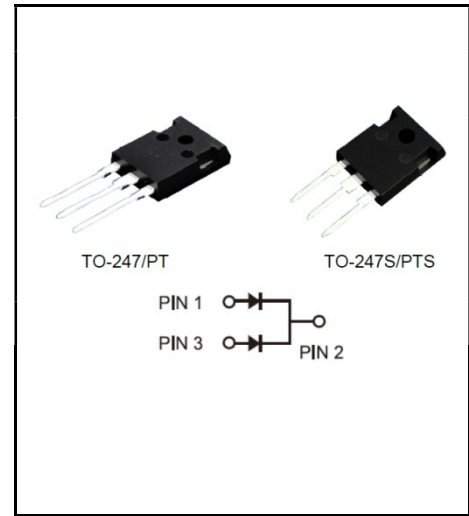


Features

- ◆Very low forward voltage
- ◆High current capability
- ◆High forward surge capability
- ◆Low power losses, High efficiency
- ◆Guarding for over voltage protection
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

Mechanical Data

- ◆Case: TO-247/TO-247S
- ◆Solder bath temperature 275°C maximum, 10s per JESD22-106



Primary Characteristic

I_o	2*30A
V_{RRM}	150V
I_{FSM}	300A
V_F	0.70V
T_J Max	150°C

Maximum Ratings (Per Leg) At Ta=25°C Unless Otherwise Specified

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	150	V
Working Peak Reverse Voltage	V_{RMS}	150	V
Maximum DC Blocking Voltage	V_{DC}	150	V
Maximum Average Forward Rectified Current	Per Leg	30	A
	Total	60	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	300	A
Operating Temperature Range	T_J	-50 ~ +150	°C
Storage Temperature Range	T_{STG}	-50 ~ +150	°C
Typical Thermal Resistance (Note1) TO-247, TO-247S	R_{θJC}	2 4	°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	
		Typ	Max		
Forward Voltage Drop (Note2) at I _F =5A	V_F	V	0.57	-	
			0.5	-	
			at I _F =10A	0.73	-
				0.6	-
			at I _F =20A	1.02	1.2
				0.7	-
Maximum Reverse Current at V _R =150V	I_R	uA	5	20	
			5	-	

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

Ratings And Characteristic Curves

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

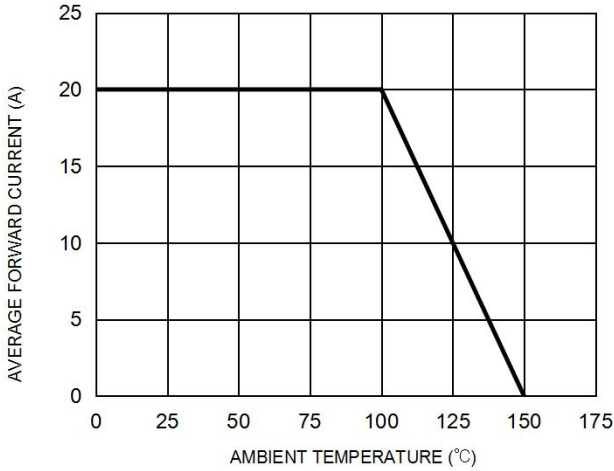


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

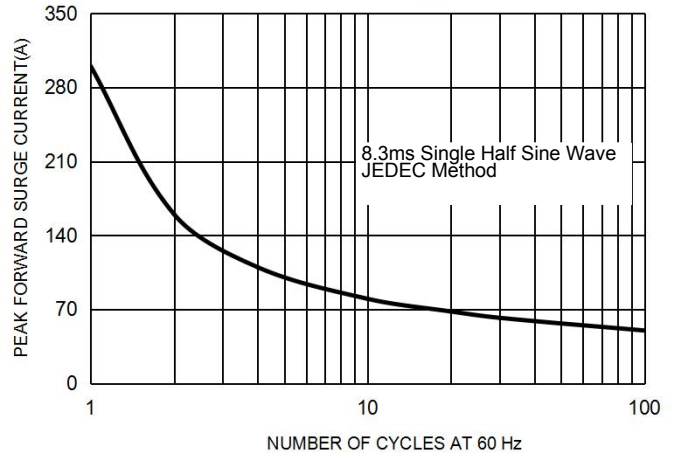


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

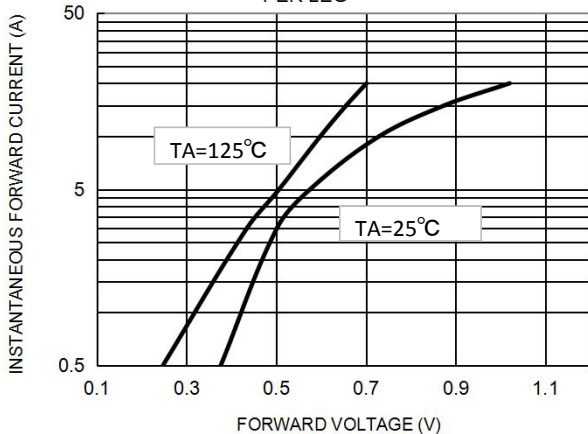
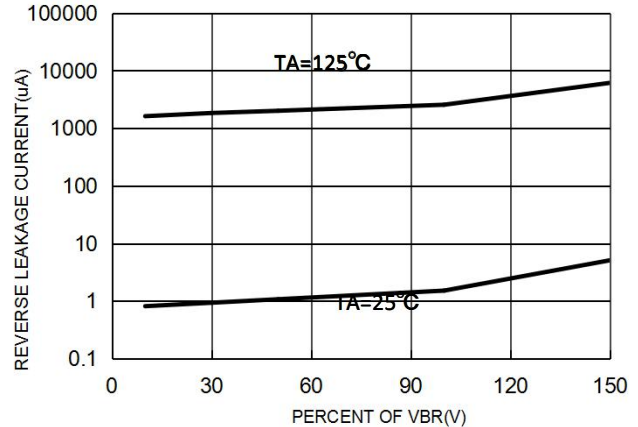
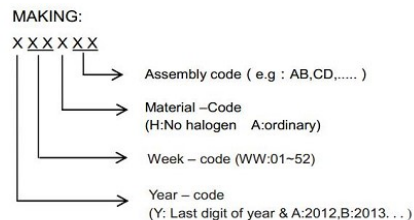
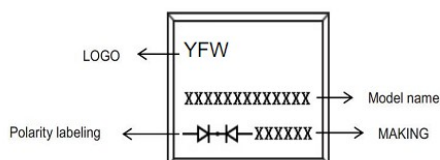


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



Marking On The Body



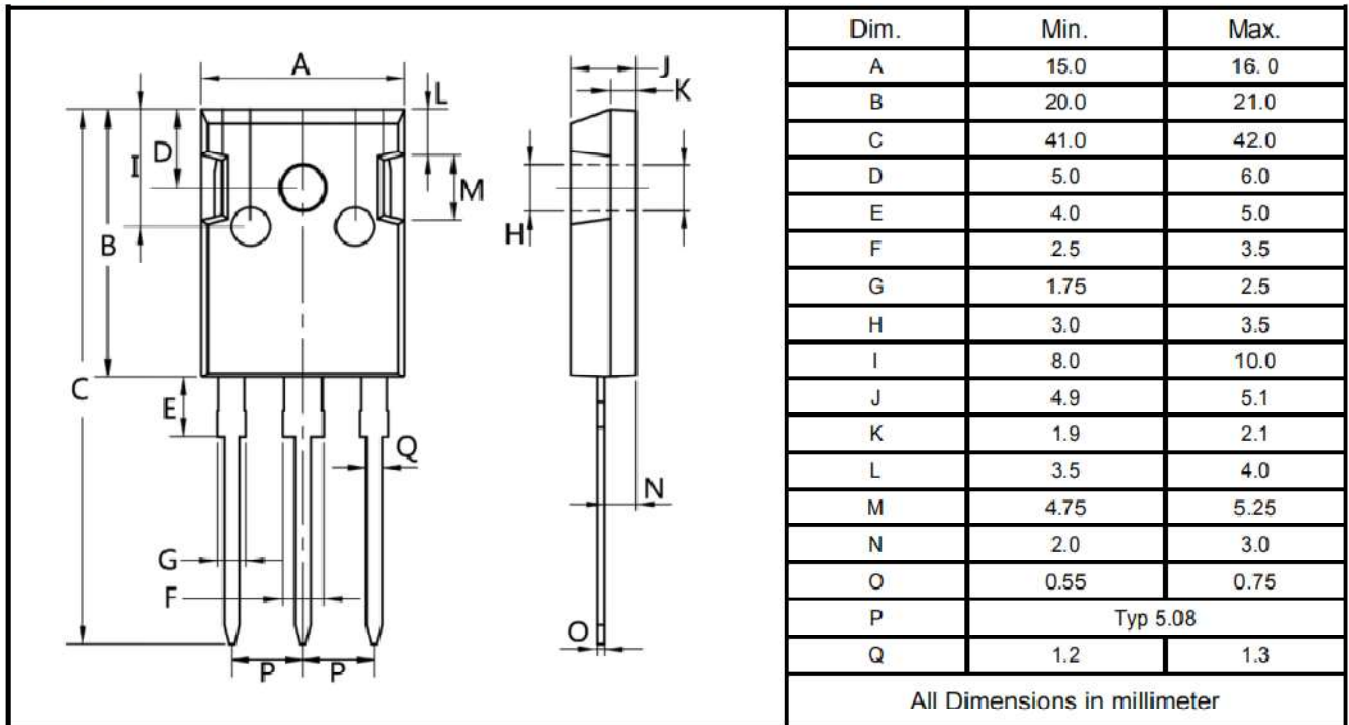
Ordering Information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
SRT60L150PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 2400pcs/carton
SRT60L150PTS	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

