

LOW VF SCHOTTKY RECTIFIER
Reverse Voltage - 60 V
Forward Current - 30 A
Features

- ◆ Low forward voltage
- ◆ High current capability
- ◆ High forward surge capability
- ◆ Low power losses, High efficiency
- ◆ Guarding for over voltage protection

APPLICATIONS

Low VF Schottky barrier rectifier are designed for high frequency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

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°C maximum,10s per JESD 22-B106

Primary Characteristic

I_o	2*15A
V_RRM	60V
I_FSM	250A
V_F	0.47V
T_J Max	150°C

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

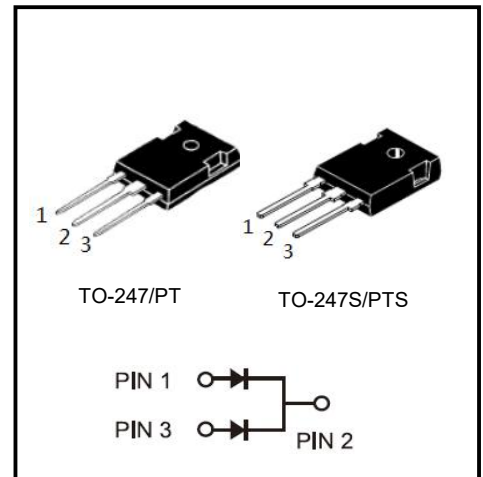
Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_RRM	60	V
Working Peak Reverse Voltage	V_RWM	42	V
Maximum DC Blocking Voltage	V_DC	60	V
Maximum Average Forward Rectified Current	Per Leg	15	A
	Total	30	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_FSM	250	A
Operating Temperature Range	T_J	-50 to +150	°C
Storage Temperature Range	T_{STG}	-50 to +150	°C
Typical Thermal Resistance (Note1)	R_θJC	2	°C/W

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

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)		V_F	Typ.	Max.	V
at I _F =5A	TA=25°C		0.40	0.45	
	TA=125°C		0.31	-	
at I _F =10A	TA=25°C		0.46	0.53	
	TA=125°C		0.39	-	
at I _F =15A	TA=25°C		0.52	0.60	
	TA=125°C		0.47	-	
Maximum Reverse Current at V _R =60V	TA=25°C	I_R	25	150	μA
	TA=125°C		17	-	mA

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



Ratings And Characteristic Curves

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

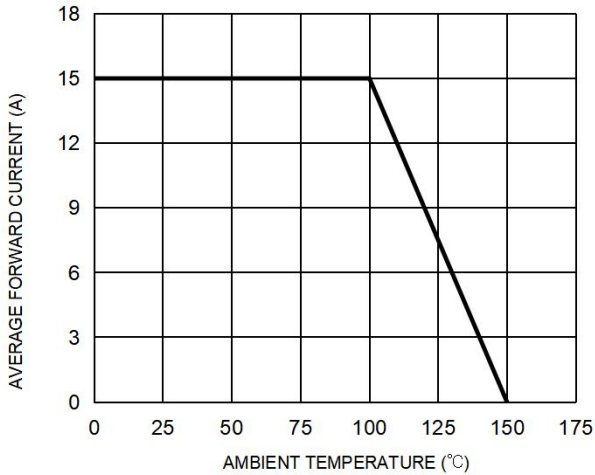


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

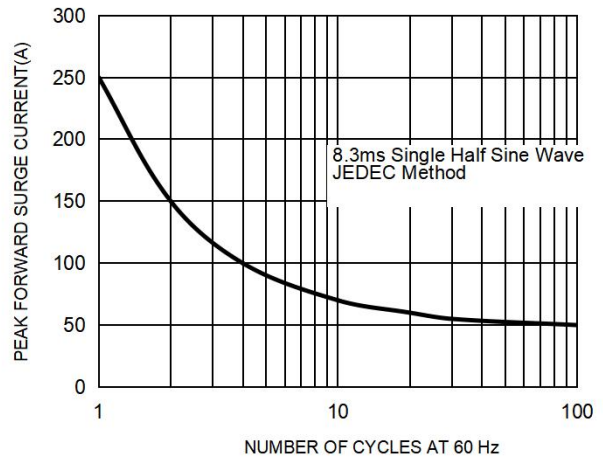


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

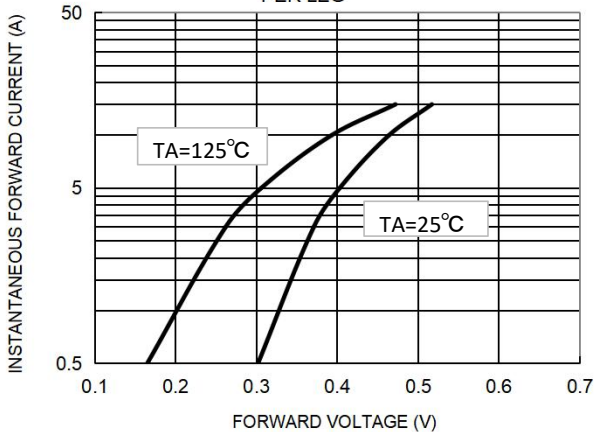
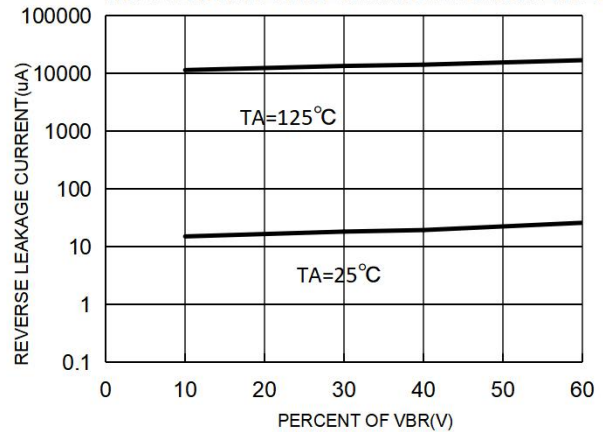
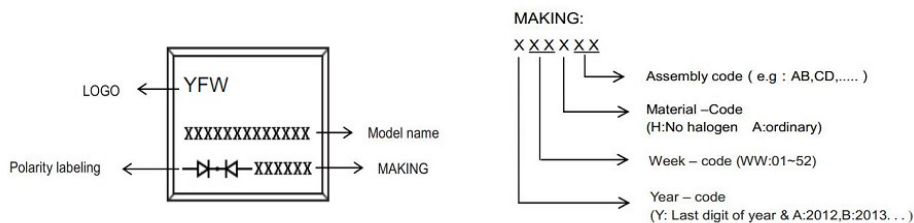


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



Marking On The Body



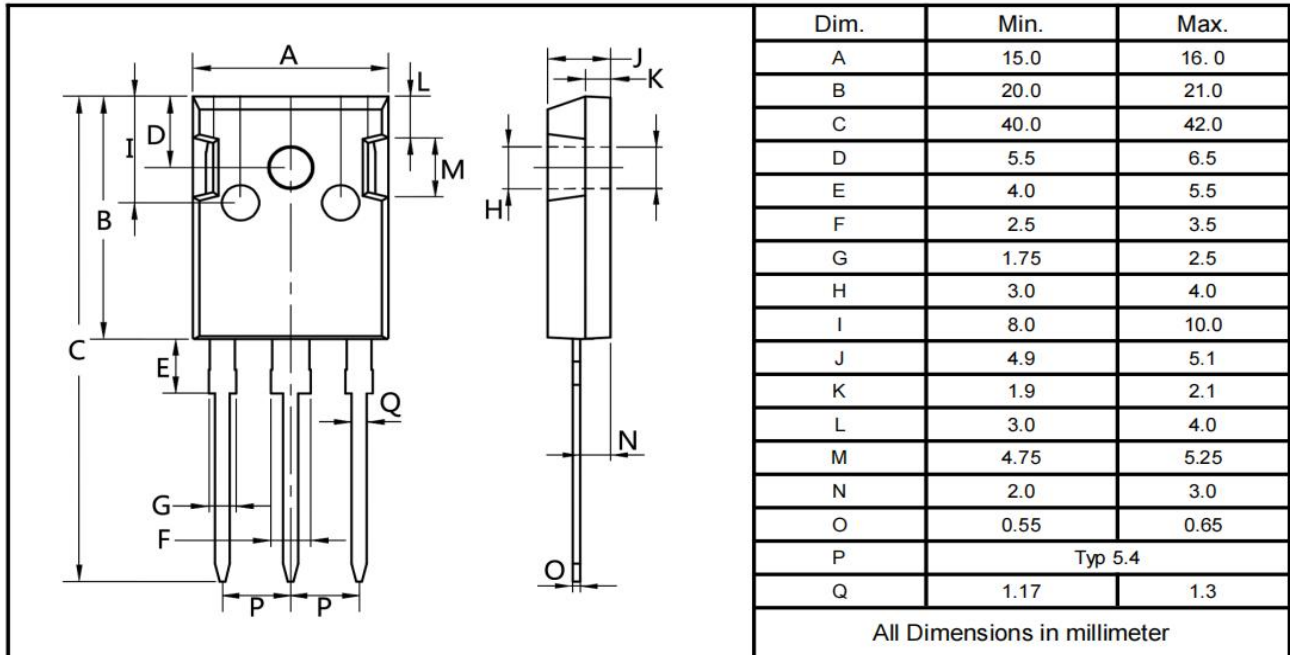
Ordering Information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
SRT30L60PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 3000pcs/carton
SRT30L60PTS	TO-247S	0.158oz(4.48g)	30 pcs / tube	600pcs/box 3000pcs/carton

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

Package Outline Dimensions millimeters

TO-247



TO-247S

