

SCHOTTKY BARRIER RECTIFIER
Reverse Voltage - 45 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}	45V
I_{FSM}	260A
V_F	0.40V
T_J Max	150°C

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

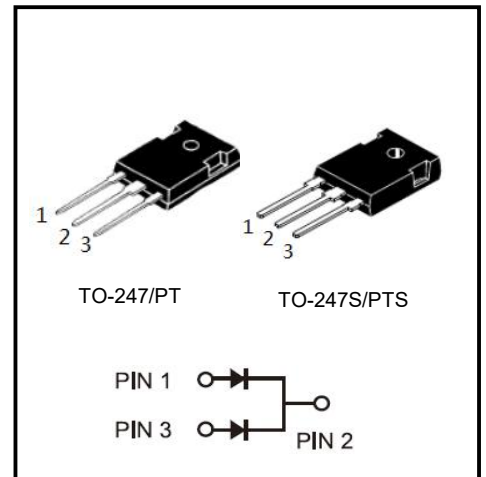
Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	45	V
Working Peak Reverse Voltage	V_{RWM}	31.5	V
Maximum DC Blocking Voltage	V_{DC}	45	V
Maximum Average Forward Rectified Current	Per Leg	15	A
	Total	30	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	260	A
Operating Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-40 to +150	°C
Typical Thermal Resistance (Note1)	R_{θJC}	2	°C/W

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

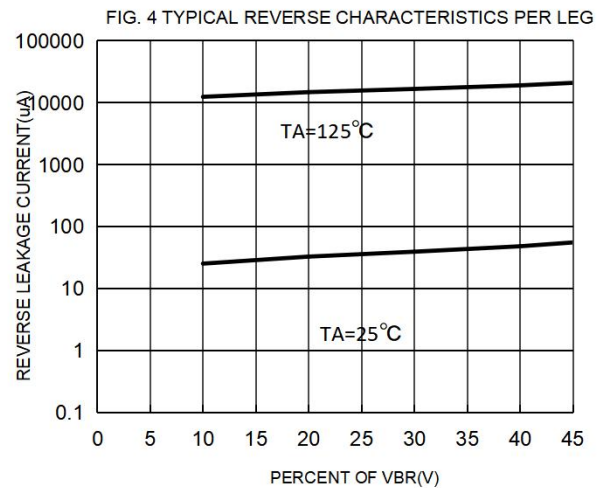
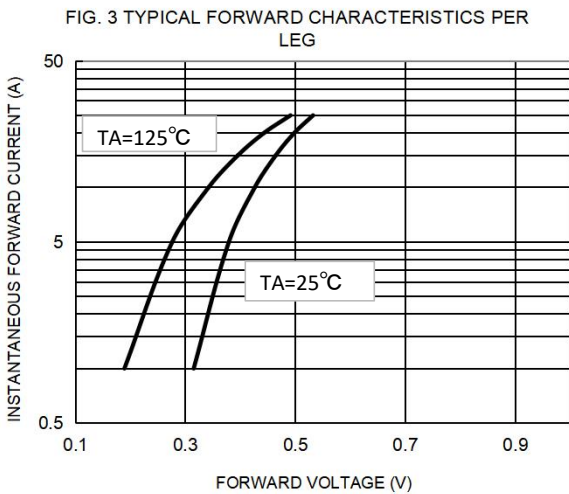
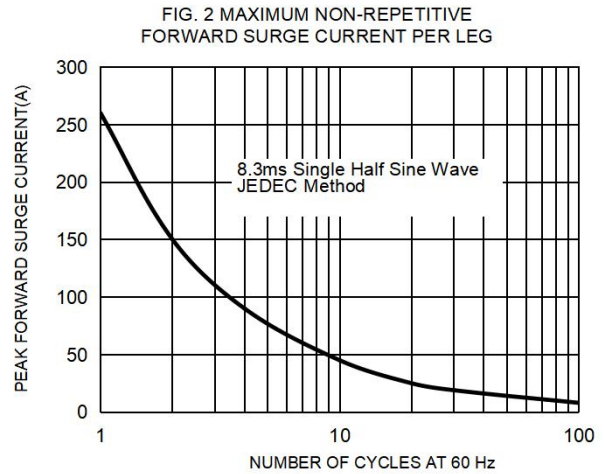
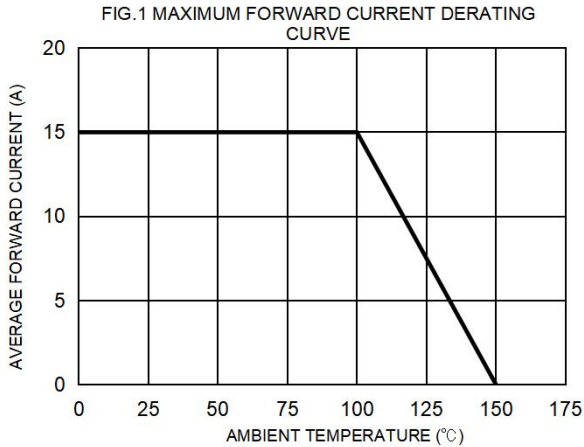
Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics	Symbol	Value		Unit				
		Typ.	Max.					
Forward Voltage Drop(Note2)	V_F	V	-	-				
					at I _F =5A	TA=25°C	0.38	-
						TA=125°C	0.28	-
					at I _F =10A	TA=25°C	0.43	-
						TA=125°C	0.34	-
					at I _F =15A	TA=25°C	0.46	0.55
TA=125°C	0.40	-						
Maximum Reverse Current at V _R =45V	I_R	μA	TA=25°C	200				
			TA=125°C	-				
				mA				

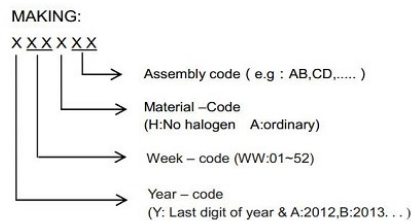
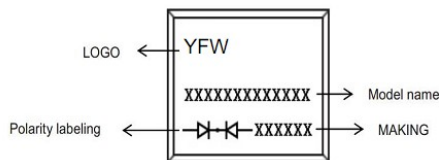
Note2:Pulse test: 300 μs pulse width, 1 % duty cycle



Ratings And Characteristic Curves



Marking On The Body



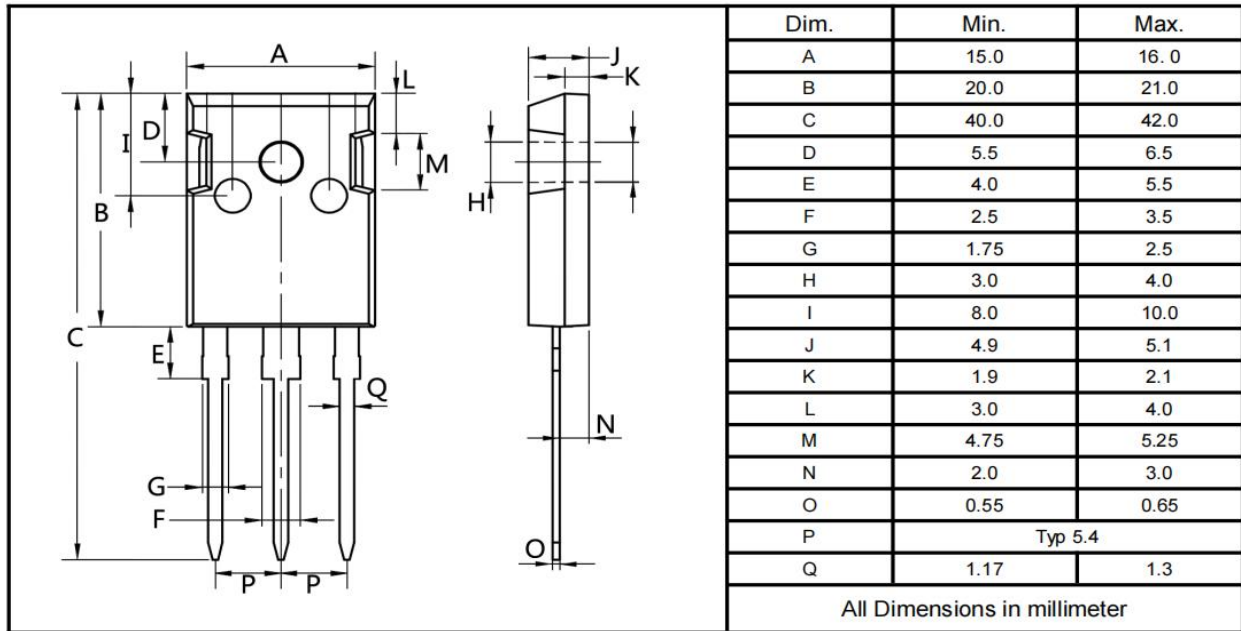
Ordering Information

Part Number	Package	Unit Weight	Base quantity	Delivery mode
SRT30L45PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 3000pcs/carton
SRT30L45PTS	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

