

**SCHOTTKY BARRIER RECTIFIER**
**Reverse Voltage - 150 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**

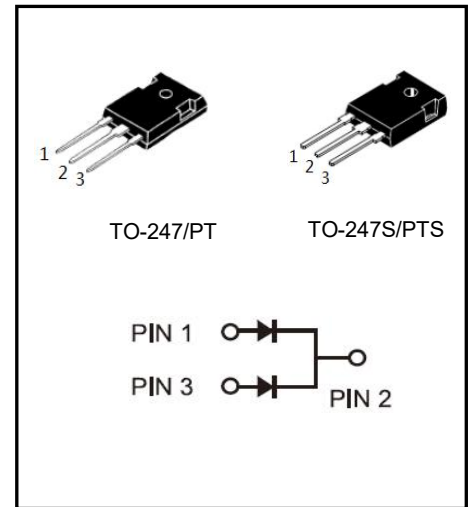
Low VF Schottky barrier rectifier are designed for high frequency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

**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**

<b>I<sub>o</sub></b>	<b>2*15A</b>
<b>V<sub>RRM</sub></b>	<b>150V</b>
<b>I<sub>FSM</sub></b>	<b>330A</b>
<b>V<sub>F</sub></b>	<b>0.73V</b>
<b>T<sub>J</sub> Max</b>	<b>150°C</b>


**Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified**

Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	150	V
Working Peak Reverse Voltage		V <sub>RWM</sub>	105	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	150	V
Maximum Average Forward Rectified Current	Per Leg	I <sub>o</sub>	15	A
	Total		30	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I <sub>FSM</sub>	330	A
Operating Temperature Range		T <sub>J</sub>	150	°C
Storage Temperature Range		T <sub>STG</sub>	-40 to +150	°C
Typical Thermal Resistance (Note1)		R <sub>θjc</sub>	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
<b>Forward Voltage Drop(Note2)</b>		V <sub>F</sub>	Typ.	Max.	V
at I <sub>F</sub> =3A	TA=25°C		0.71	-	
	TA=125°C		0.57	-	
at I <sub>F</sub> =5A	TA=25°C		0.75	-	
	TA=125°C		0.61	-	
at I <sub>F</sub> =15A	TA=25°C		0.84	0.92	
	TA=125°C	0.73	-		
Maximum Reverse Current at V <sub>R</sub> =150V	TA=25°C	I <sub>R</sub>	1.5	10	μA
	TA=125°C		1	-	mA

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

**RATINGS AND CHARACTERISTIC CURVES**

FIG. 1 MAXIMUM FORWARD CURRENT DERATING CURVE

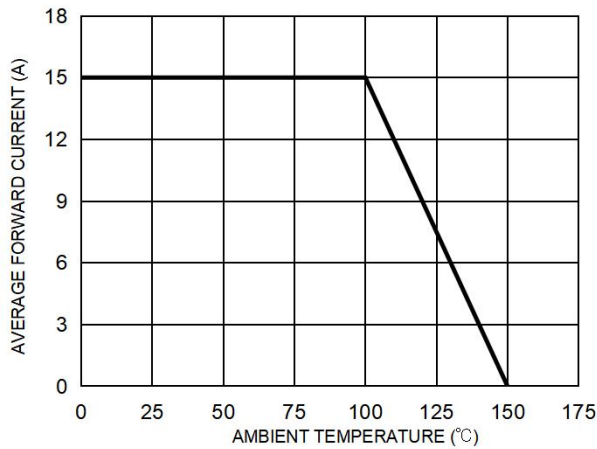


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

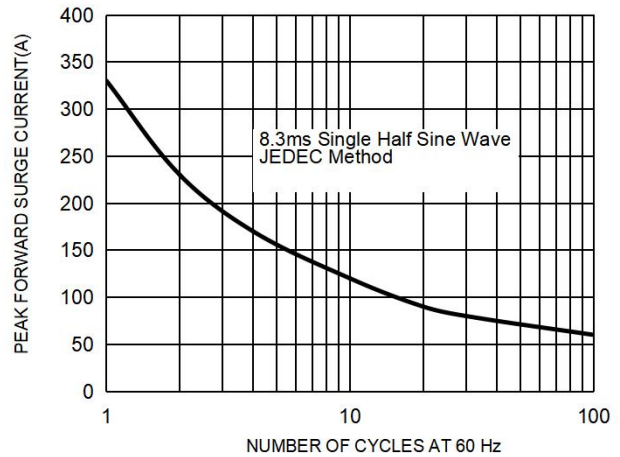


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

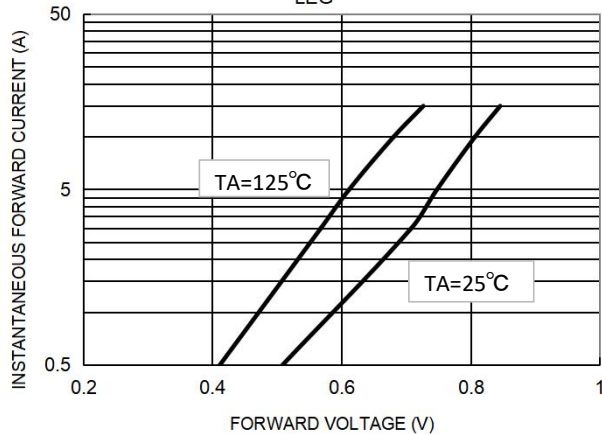
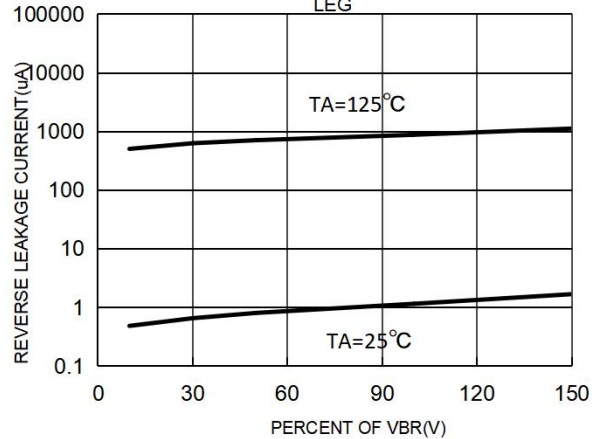
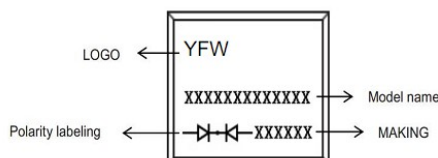


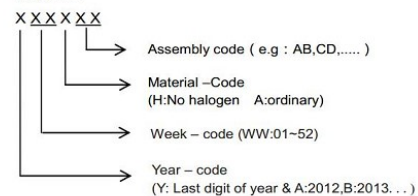
FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



**Marking on the body**



**MAKING:**



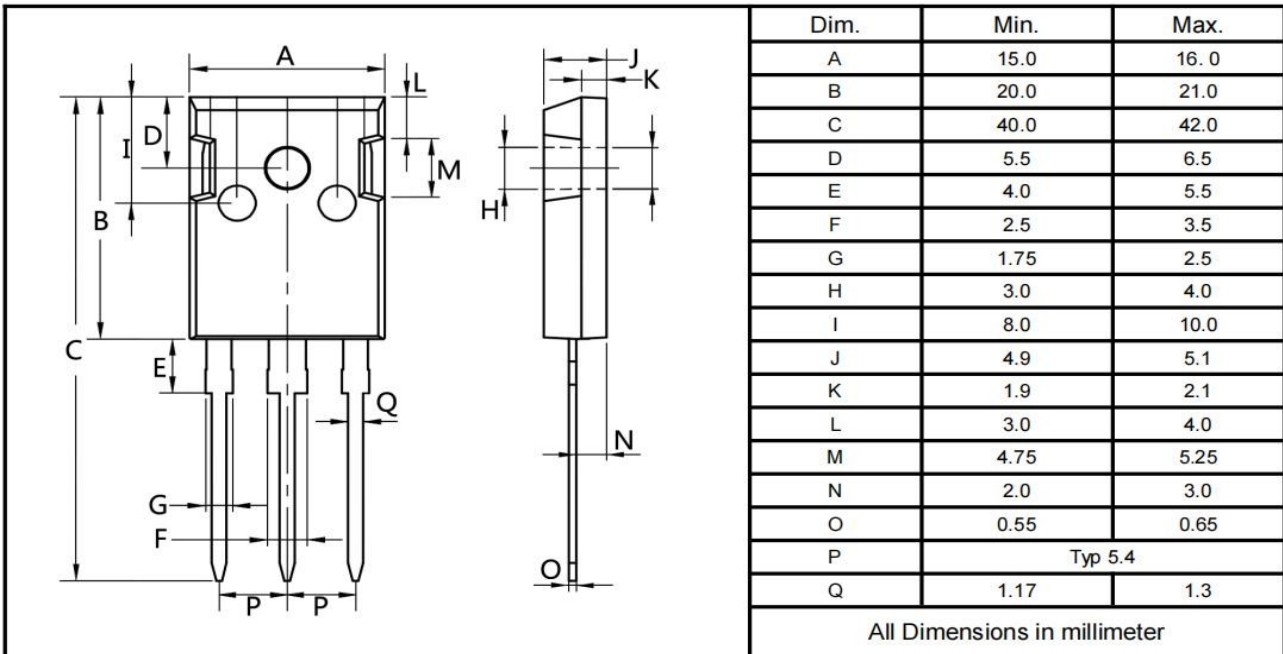
**Ordering information**

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MBR30150PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 2400pcs/carton
MBR30150PTS	TO-247S	0.158oz(4.48g)	30 pcs / tube	600pcs/box 2400pcs/carton

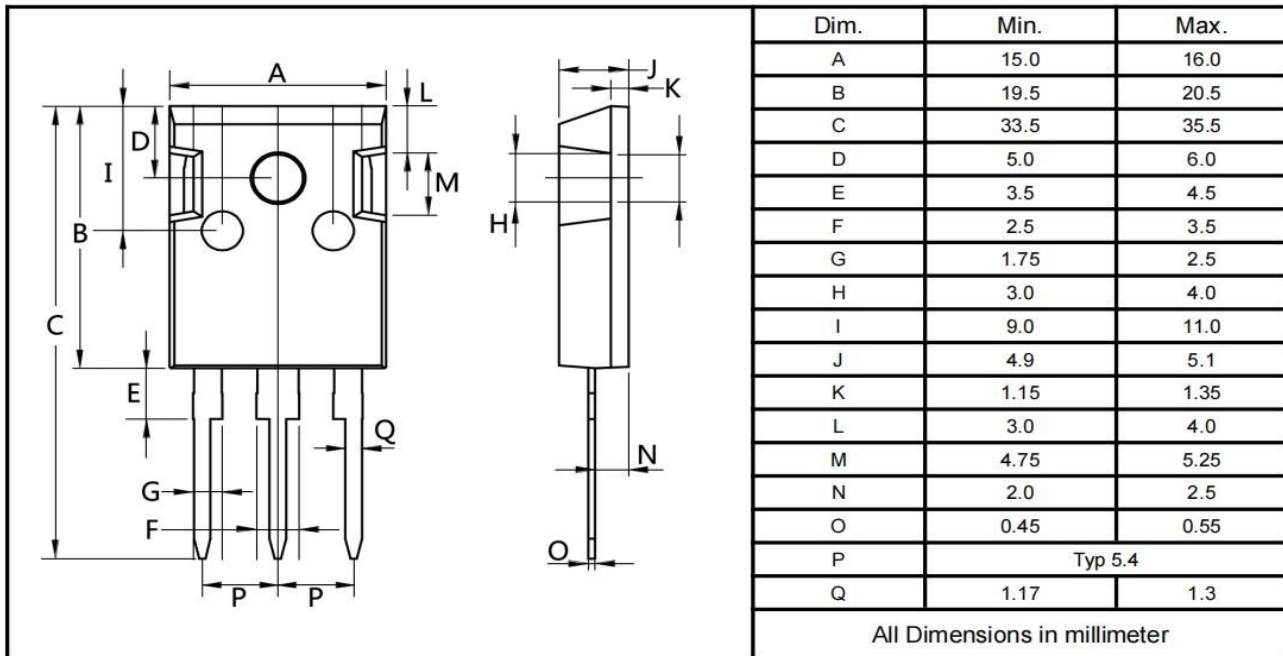
Note: For Halogen Free molding compound, add "H" suffix to part number above.

Package Outline Dimensions millimeters

**TO-247**



**TO-247S**



单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)