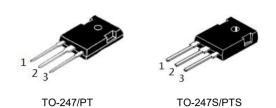
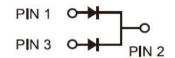


SBT30L45PT/PTS

SCHOTTKY BARRIER RECTIFIER





Primary Characteristic			
I _o	2*15A		
V_{RRM}	45V		
I _{FSM}	260A		
V_{F}	0.40V		
T₃max	150℃		

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

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}	45	V	
Maximum DC Blocking Voltage		V_{DC}	45	V	
Maximum Average Forward Rectified	Per Leg		15	^	
Current	Total	I _O	30	Α	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	260	А	
Operating Temperature Range		TJ	150	°C	
Storage Temperature Range		T _{STG}	-40 to +150	°C	
Typical Thermal Resistance (Note1)		R _{0 JC}	2	°C/W	

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

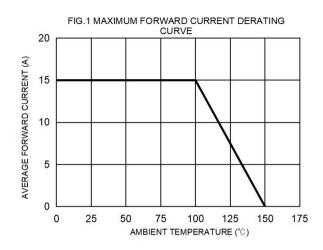
Electrical Characteristics (Per Leg) unless otherwise specified					
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I _F =5A	TA=25°C	1	0.38	-	Ī
	TA=125°C	V_{F}	0.28	-	V
at I _F =10A	TA=25°C		0.43		
	TA=125°C		0.34	-	Ī
at I _F =15A	TA=25°C	1	0.46	0.55	Ī
	TA=125°C		0.40	-	1
Maximum Reverse Current at V _R =45V	TA=25°C		55.77	200	μΑ
	TA=125°C	I _R	20890	-	μA

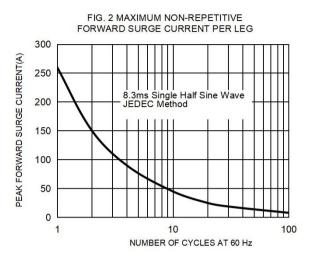
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

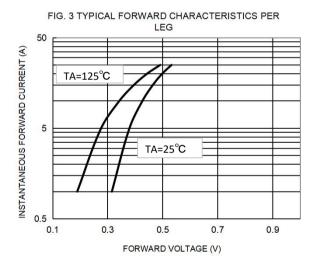


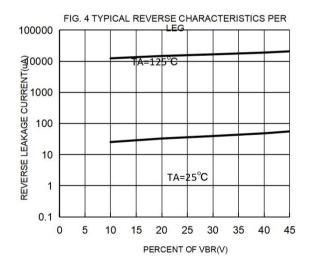


RATINGS AND CHARACTERISTIC CURVES







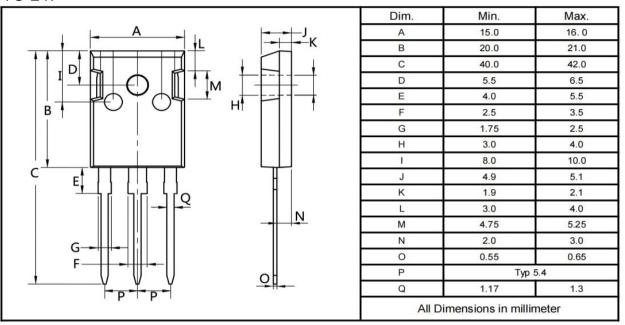




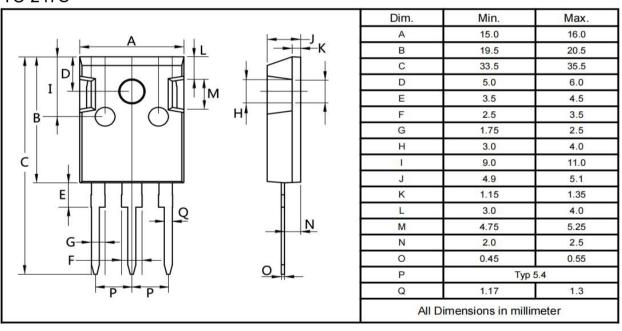
SBT30L45PT/PTS

Package Outline Dimensions millimeters

TO-247



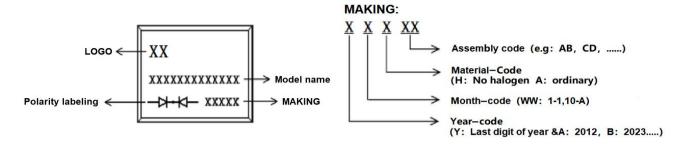
TO-247S





SBT30L45PT/PTS

Marking on the body



Ordering information					
Part Number	Package	Unit Weight	Base Quantity	Delivery mode	
MBR4045PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 2400pcs/carton	
MBR4045PTS	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.

packing instruction				
PKG	最小包装	内盒	外箱	
TO-247 TO-247S				
	30pcs/管	600pcs/盒	2400pcs/箱	

Notice

- 1. All product, product specifications and data are subject to change without notice to improve. The right to explain is owned by LINGXUN electronics company.
- 2. Confirm that operation temperature is within the specified range described in the product specification. Avoid applying power exceeding normal rated power;

exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.

3. LINGXUN electronics shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.