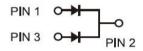


LOW VF SCHOTTKY RECTIFIER

1 2 3



TO-247S/PTS



Primary Characteristic		
Ι _ο	2*20A	
V_{RRM}	45V	
I _{FSM}	250A	
V_{F}	0.43V	
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 plasticPolarity: As markedMounting 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 Current	Per Leg	IO	20	А
	Total		40	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	250	А
Operating Temperature Range		T _J	-50 to +150	°C
Storage Temperature Range		T _{STG}	-50 to +150	°C
Typical Thermal Resistance (Note1)		R _{θ JC}	2	°C/W

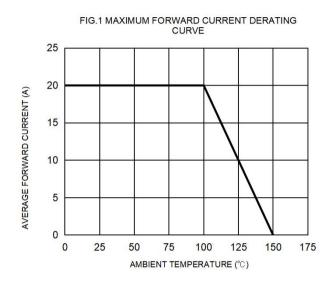
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

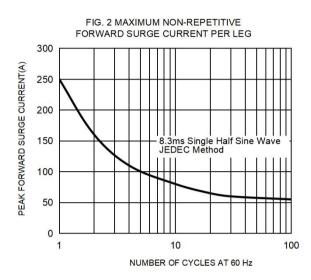
Electrical Characteristics (Per Leg) unless otherwise specified					
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I _F =5A	TA=25°C	V _F	0.37	-	
	TA=125°C		0.27	-	V
ot I =10A	TA=25°C		0.41	-	
at I _F =10A	TA=125°C		0.33	-	
at I _F =20A	TA=25°C		0.47	0.55	
	TA=125°C		0.43	ı	
Maximum Reverse Current at V _R =45V	TA=25°C	- I _R	90	200	μΑ
	TA=125°C		22	-	mA

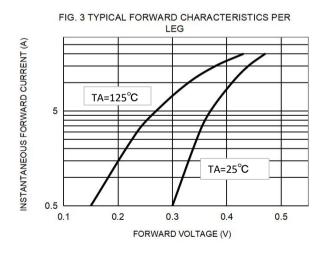
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

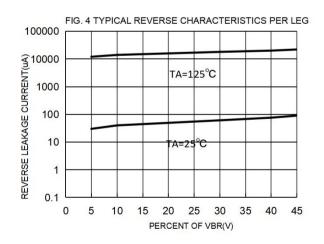


RATINGS AND CHARACTERISTIC CURVES





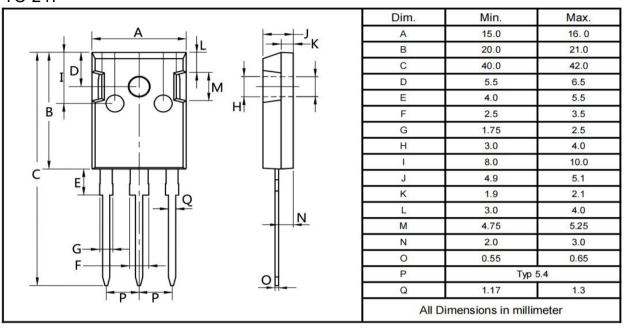




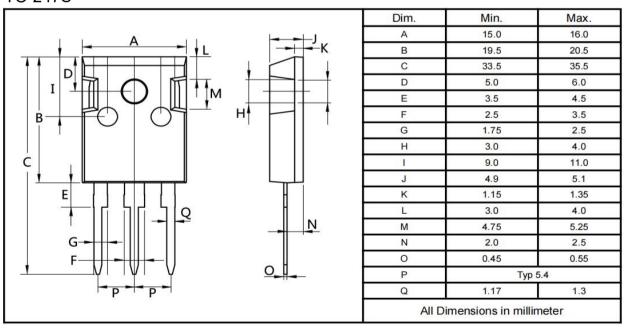


Package Outline Dimensions millimeters

TO-247



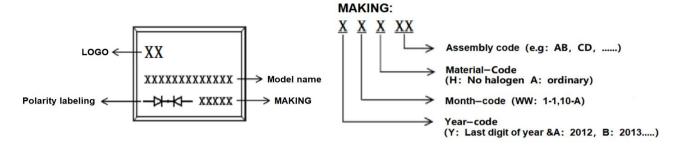
TO-247S





SBT40L45PT/PTS

Marking on the body



Ordering information					
Part Number	Package	Unit Weight	Base Quantity	Delivery mode	
SBT40L45PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 3000pcs/carton	
SBT40L45PTS	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.

packing instruction

PKG	最小包装	内盒	外箱	
TO-247 TO-247S			(W. I. A. T. O. W. I.	
	30PCS/管	600pcs/盒	3000pcs/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.