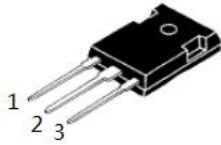
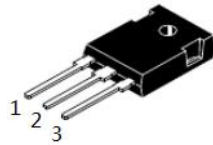
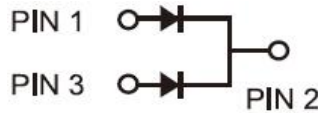


**SCHOTTKY BARRIER RECTIFIER**

TO-247/PT



TO-247S/PTS

**FEATURES**

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

**RoHS**  
COMPLIANT**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

**Primary Characteristic**

$I_O$	2*10A
$V_{RRM}$	200V
$I_{FSM}$	350A
$V_F$	0.67V
$T_{jmax}$	175°C
Assembly code	IW

**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	$V_{RRM}$	200	V
Working Peak Reverse Voltage	$V_{RWM}$	200	V
Maximum DC Blocking Voltage	$V_{DC}$	200	V
Maximum Average Forward Rectified Current	Per Leg $I_O$	10	A
		20	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	350	A
Operating Temperature Range	$T_J$	175	°C
Storage Temperature Range	$T_{STG}$	-40 to +175	°C
Typical Thermal Resistance (Note1) TO-220AB,TO-263 TO-220F	$R_{\theta JC}$	2	°C/W
		4	

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 <sub>F</sub>	Typ.	Max.	V
at I <sub>F</sub> =5A	TA=25°C		0.75	-	
	TA=125°C		0.60	-	
at I <sub>F</sub> =10A	TA=25°C		0.80	0.87	
	TA=125°C		0.67	-	
Maximum Reverse Current at V <sub>R</sub> =200V	TA=25°C		I <sub>R</sub>	0.1	
	TA=125°C		160	-	μA

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



## RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

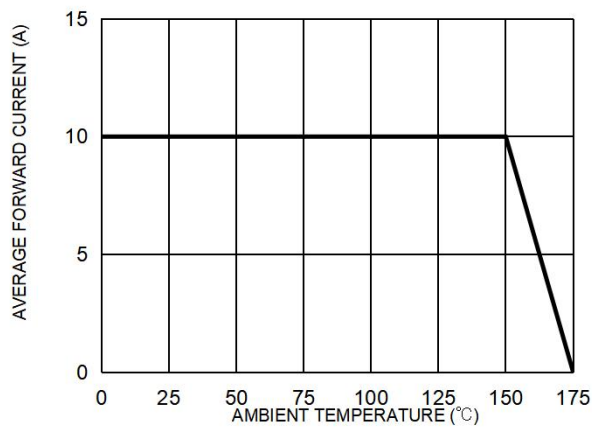


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

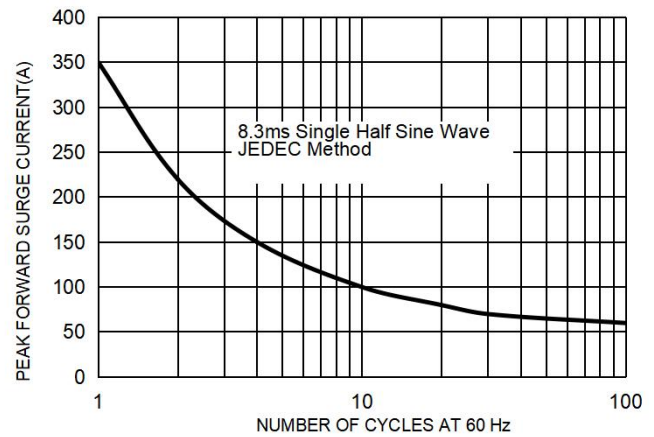


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

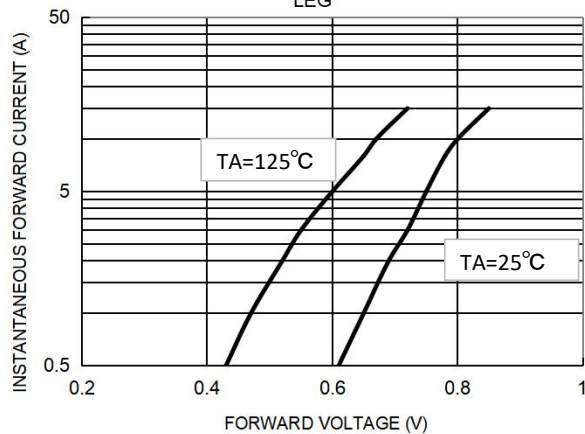
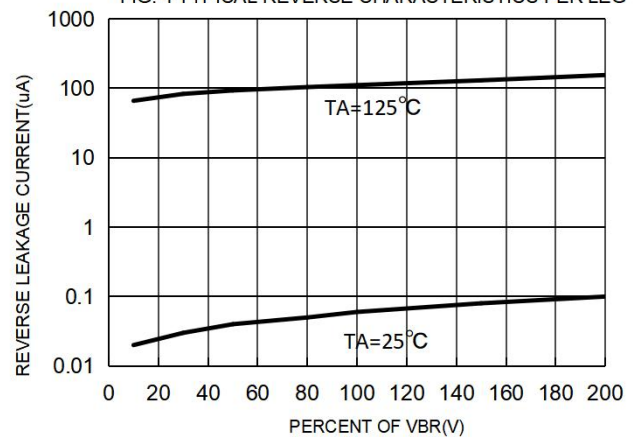


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

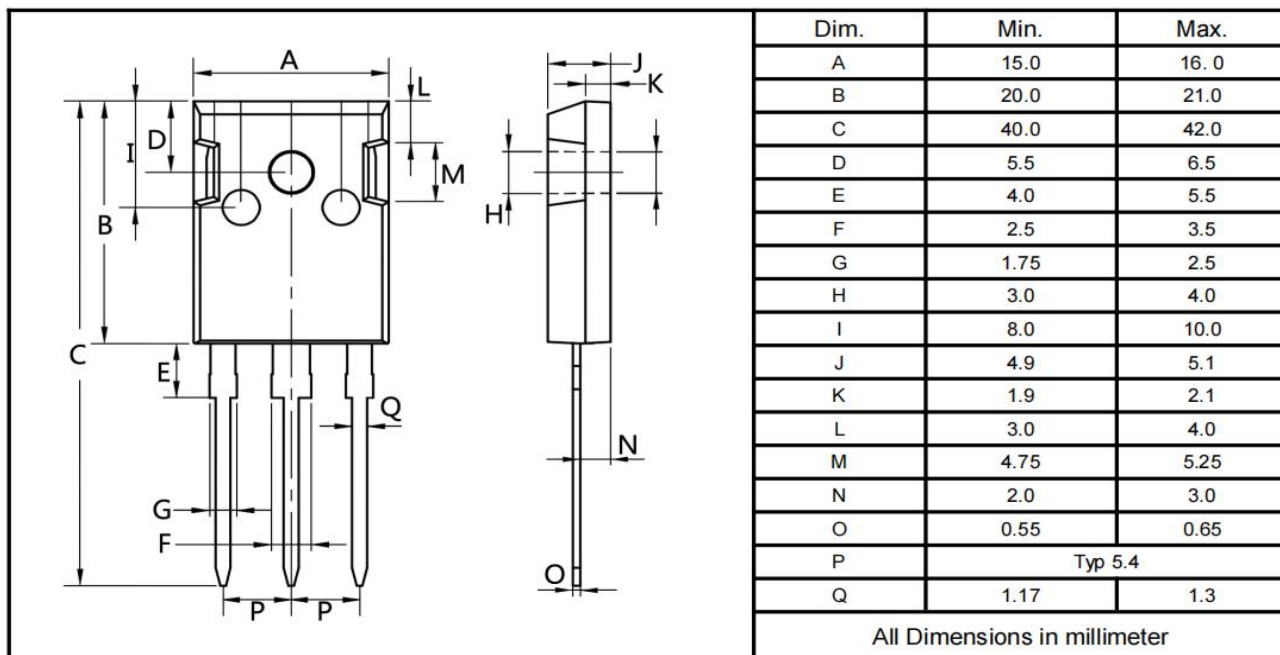




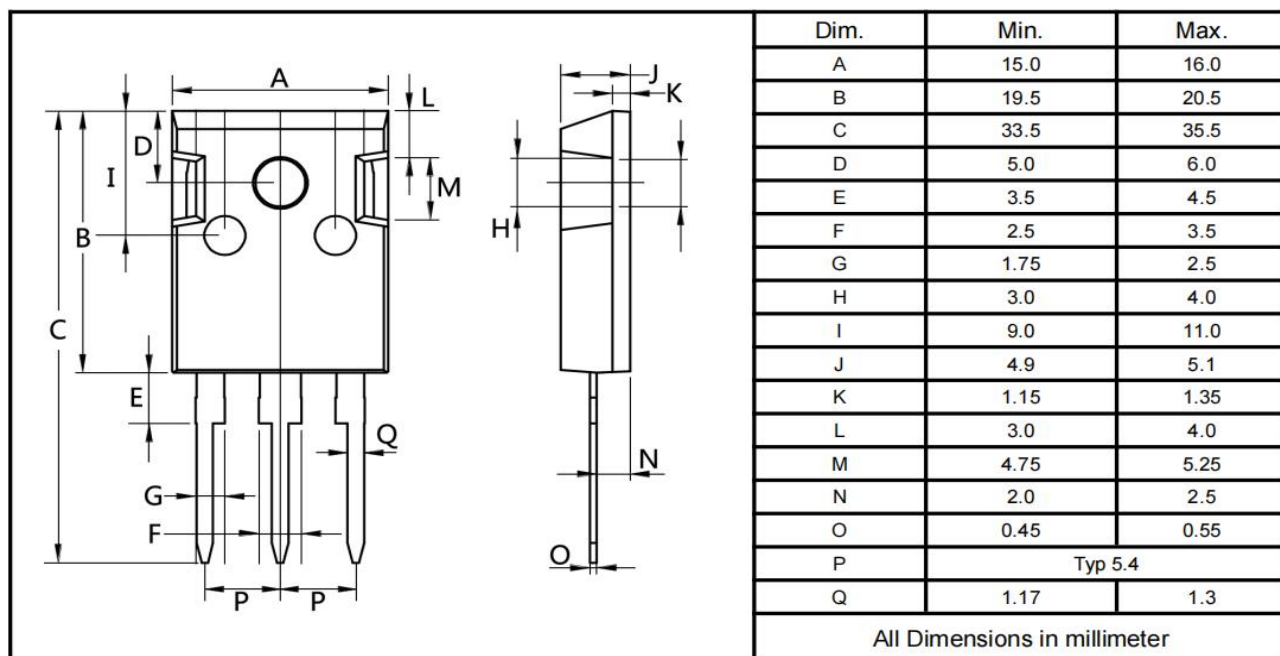
# HBT20L200PT/PTS

## Package Outline Dimensions millimeters

### TO-247

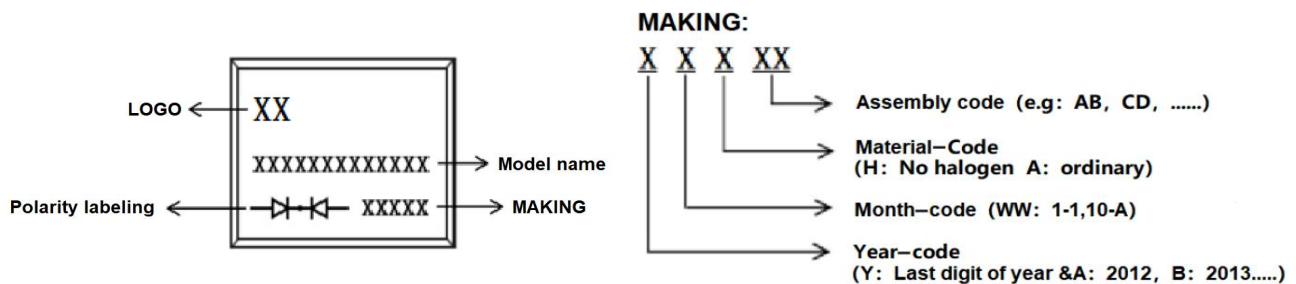


### TO-247S





## Marking on the body

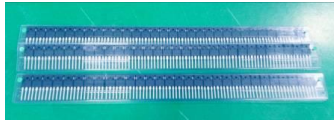




## Ordering information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
HBT20L200PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 3000pcs/carton
HBT20L200PTS	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			
	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.