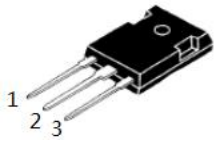
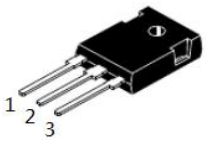
凌讯 LX MICRO

SBT40L60PT/PTS

LOW VF SCHOTTKY RECTIFIER



TO-247/PT

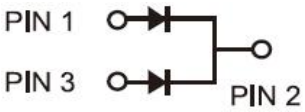


TO-247S/PTS

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 freqency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

Primary Characteristic

I_O	2*20A
V_{RRM}	60V
I_{FSM}	250A
V_F	0.49V
$T_J$max	150℃

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℃ 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}	60	V
Working Peak Reverse Voltage		V_{RWM}	60	V
Maximum DC Blocking Voltage		V_{DC}	60	V
Maximum Average Forward Rectified Current	Per Leg	IO	20	A
	Total		40	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I_{FSM}	250	A
Operating Temperature Range		T_J	-50 to +150	°C
Storage Temperature Range		T_{STG}	-50 to +150	°C
Typical Thermal Resistance (Note1)		$R_{\theta JC}$	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)			Typ.	Max.	
at I_F=5A	TA=25°C	V_F	0.38	-	V
	TA=125°C		0.28	-	
at I_F=10A	TA=25°C		0.44	-	
	TA=125°C		0.36	-	
at I_F=20A	TA=25°C		0.53	0.60	
	TA=125°C		0.49	-	
Maximum Reverse Current at V_R=60V	TA=25°C	I_R	75	200	μA
	TA=125°C		2.1	-	mA

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

RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

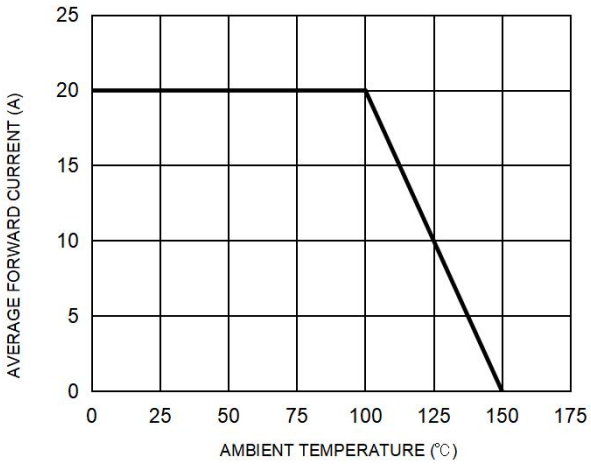


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

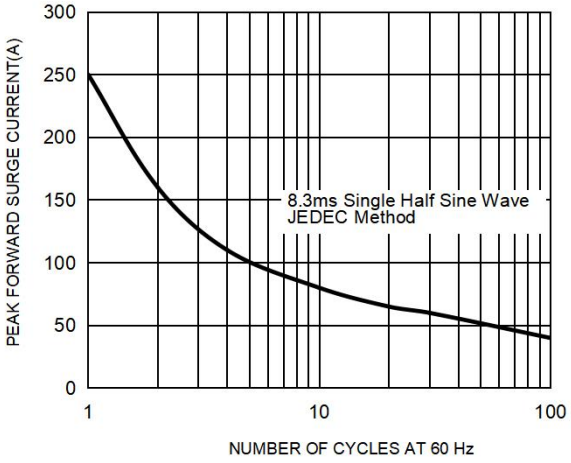


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

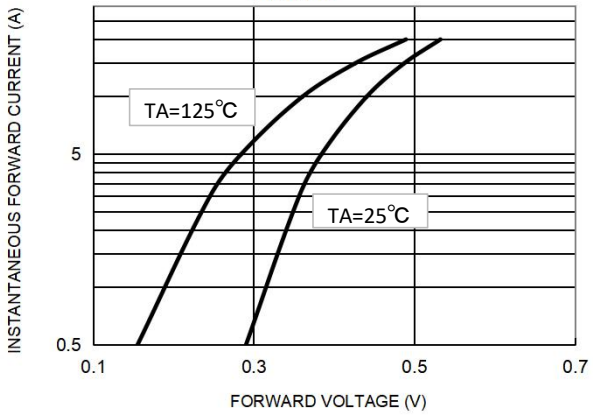
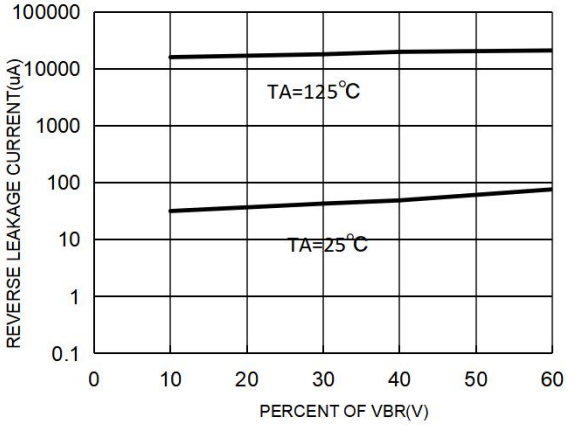
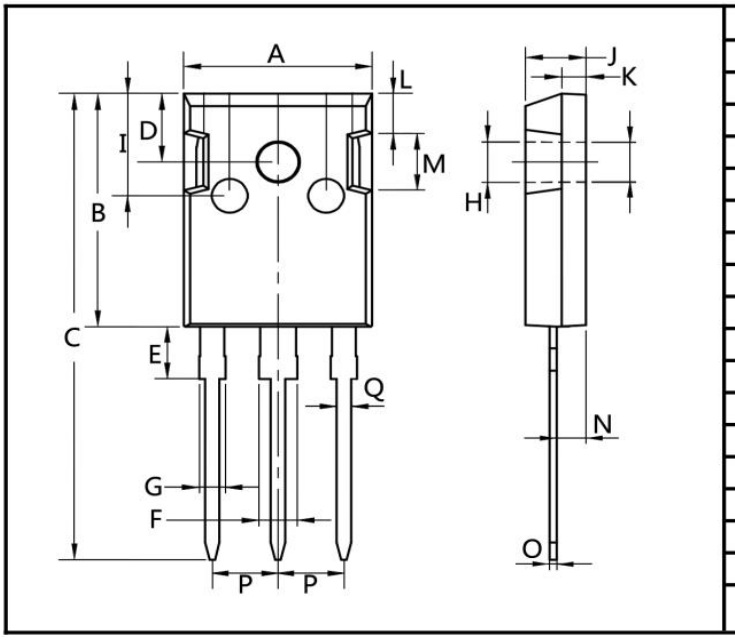


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



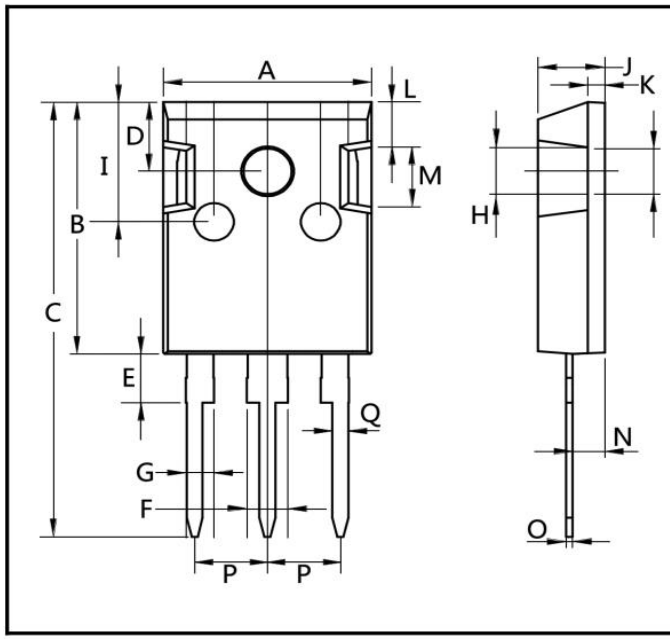
Package Outline Dimensions millimeters

TO-247



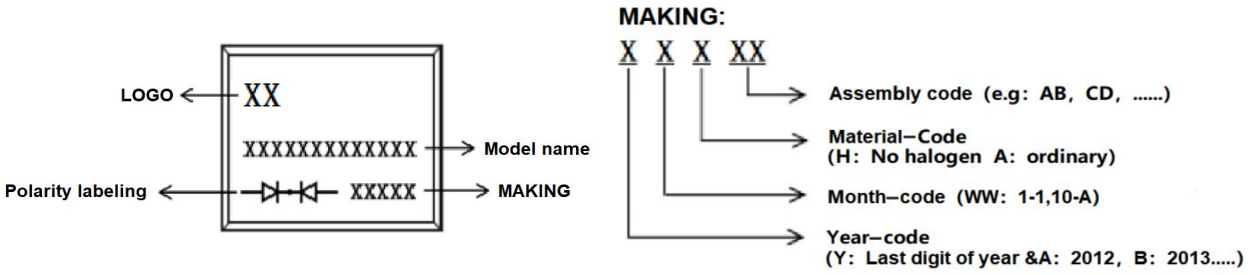
Dim.	Min.	Max.
A	15.0	16. 0
B	20.0	21.0
C	40.0	42.0
D	5.5	6.5
E	4.0	5.5
F	2.5	3.5
G	1.75	2.5
H	3.0	4.0
I	8.0	10.0
J	4.9	5.1
K	1.9	2.1
L	3.0	4.0
M	4.75	5.25
N	2.0	3.0
O	0.55	0.65
P	Typ 5.4	
Q	1.17	1.3
All Dimensions in millimeter		

TO-247S



Dim.	Min.	Max.
A	15.0	16.0
B	19.5	20.5
C	33.5	35.5
D	5.0	6.0
E	3.5	4.5
F	2.5	3.5
G	1.75	2.5
H	3.0	4.0
I	9.0	11.0
J	4.9	5.1
K	1.15	1.35
L	3.0	4.0
M	4.75	5.25
N	2.0	2.5
O	0.45	0.55
P	Typ 5.4	
Q	1.17	1.3
All Dimensions in millimeter		

Marking on the body

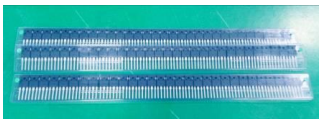


Ordering information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
SBT40L60PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 3000pcs/carton
SBT40L60PTS	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.

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Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

LX MICRO:

MUR2060FCT SBT10L100CT LT60N06AD MBR6045PTS SBT30L150PT CS12N60A8 CS5N60A2 CS30N50A6 MBR3045DC SBT40L100FCT CS12N65A2 CS25N60A6 LG120N085AP MBR10150CS SBT20V100DC LC65R600F LT30N06AD MUR3040PT CS16N60A8 LG280N10AT LT50N06AP MUR3020PT MBR10100AC MBR20100FCT MBR60150CT MBR60200PT SBT30L80FCT SBT40L60CT MBR1060FCT MBR30200PT