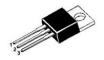


LOW VF SCHOTTKY RECTIFIER





TO-220AB/CT

TO-220F/FCT

FEATURES

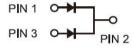
- Low forward voltage
- High current capability
- High forward surge capability
- Low power losses, High efficiency
- Guarding for over voltage protection





 V_F

 T_J max



0.58V

150℃

5-1-7-80 to 10-20

PIN 2

Primary Characteristic Io 2*15A V_{RRM} 80V I_{FSM} 260A

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

 \bullet Lead free in compliance with EU RoHS 2011/65/EU directive

• Solder bath temperature 275°C maximum,10s per JESD 22-

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified				
Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Volta	Maximum Repetitive Peak Reverse Voltage		80	V
Working Peak Reverse Voltage		V_{RWM}	80	V
Maximum DC Blocking Voltage		V_{DC}	80	V
Maximum Average Forward Rectified	Per Leg		15	۸
Current	Total	' o	30	_ A
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	260	А
Operating Temperature Range		T _J	-50 to +150	°C
Storage Temperature Range		T _{STG}	-50 to +150	°C
Typical Thermal Resistance (Note1)				
TO-220AB,TO-263		R _{e JC}	2	°C/W
TO-220F			4	
NICATE I I C I C			-	

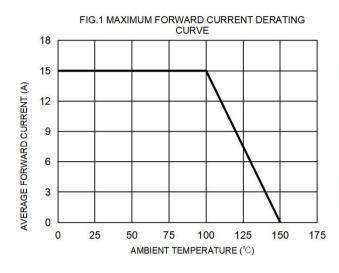
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

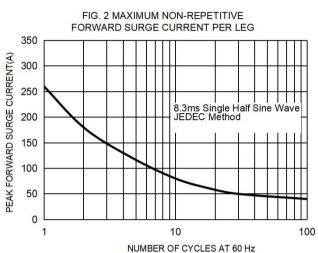
Electrical Characteristics	(Per Leg) un	less other	wise specified		
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I₅=5A	TA=25°C	1	0.43	-	
at I _F -5A	TA=125°C	1	0.36	-	
at I =10A	TA=25°C	V_{F}	0.51	0.58	V
at I _F =10A	TA=125°C	1	0.48	-	
at 1 = 45 A	TA=25°C	1	0.58	0.66	
at I _F =15A	TA=125°C	1	0.58	-	
Maximum Boyaraa Current at 1/ -90\/	TA=25°C		50.75	70	μΑ
Maximum Reverse Current at V _R =80V	TA=125°C	I _R	16.6	-	mA

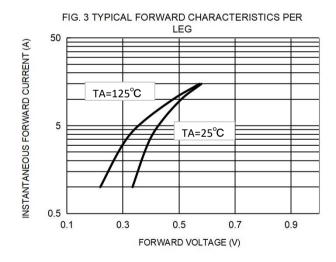
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

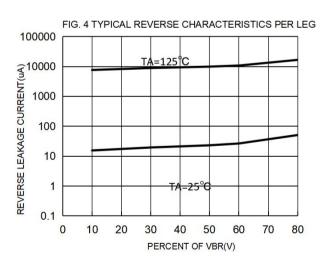


RATINGS AND CHARACTERISTIC CURVES





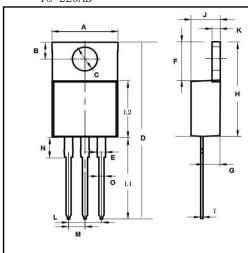






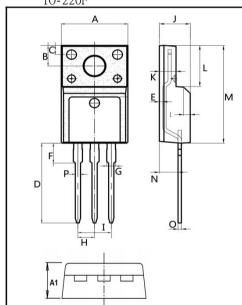
Package Outline Dimensions millimeters

TO-220AB



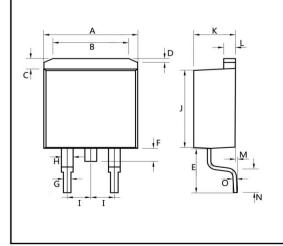
Dim.	Min.	Max.			
Α	10.15	10.35			
В	2.50	2.95			
С	3.70	3.90			
D	28.5	29.5			
E	1.20	1.40			
F	6.20	6.55			
G	2.85	3.25			
Н	15.0	16.0			
1	0.35	0.42			
J	4.3	4.55			
K	1.2	1.4			
L	Typ5.08				
L1	13	14			
L2	8.5	9.5			
M	Typ2.54				
N	2.8	3.5			
0	0.70	0.90			
All D	All Dimensions in millimeter				

TO-220F



Dim.	Min.	Max.
Α	9.95	10.35
A1	4.5	5.0
В	2.95	3.25
С	1.25	1.45
D	12.65	12.95
E	0.40	0.60
F	2.8	3.5
G	1.30	1.45
Н	Тур	2.54
I	Тур	5.08
J	4.60	4.75
K	2.45	2. 65
L	6.45	6.85
M	15.4 16	
N	2.75	3.05
0	0.45 0.55	
Р	0.70	0.90

TO-263

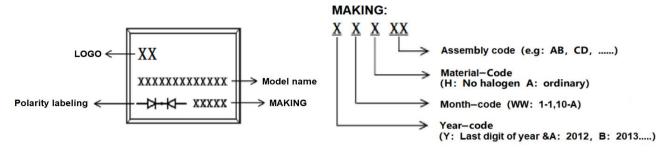


Dim.	Min.	Max.
Α	10.10	10.35
В	6	8
С	1.2	1.5
D	0.55	1.0
E	4.3	5.3
F	1.4	1.6
G	0.75	0.85
Н	1.2	1.5
I	Typ2	2.54
J	8.5	9.5
K	4.3	4.55
L	1.25	1.35
M	0.02	0.23
N	2.2	2.8
0	0.3	0.4

www.lxmicro.com 3 of 4 LingXun Rev:01



Marking on the body



Ordering information						
Part Number	Package	Unit Weight	Base Quantity	Delivery mode		
SBT30L80CT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton		
SBT30L80FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton		
SBT30L80DC	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton		
SBT30L80DC-R	TO-263	0.04oz(1.16g)	800 pcs / reel	1600pcs/box 8000pcs/carton		

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

packing instruction						
PKG	最小包装		外箱			
TO-220AB TO-220F TO-263			200 200 200 200 200			
	50pcs/管	1000pcs/盒	5000pcs/箱			
TO-263-R						
	800pcs/盘	1600pcs/盒	8000pcs/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.

www.lxmicro.com 4 of 4 LingXun Rev:01