

ULTRA LOW VF SCHOTTKY RECTIFIER





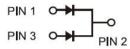
TO-220AB/CT TO-220F/FCT

FEATURES

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







80V

220A

0.49V

150℃

TC

 V_{RRM}

 I_{FSM}

 V_{F}

 T_{J} max

Primary

3	600	_		PIN 2
O-263/DC				
Characteristi	С			
I _O		2	2*10/	4

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

Symbol	Value	Unit
` '		Unit
V_{RRM}	80	V
V_{RWM}	80	V
V_{DC}	80	V
	10	Α
' 0	20	A
I _{FSM}	220	А
TJ	-50 to +150	°C
T _{STG}	-50 to +150	°C
R _{0 JC}	2	°C/W
	4	
	V _{DC} I _O I _{FSM}	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

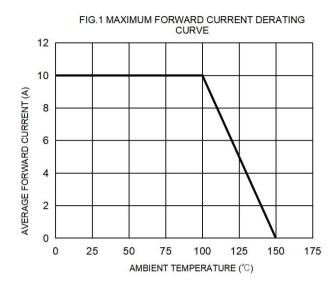
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

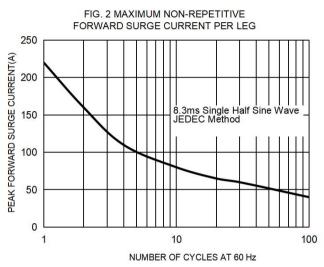
Electrical Characteristics (Per Leg) unless otherwise specified					
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I₅=3A	TA=25°C	V _F	0.42	-	
at I _F -3A	TA=125°C		0.36	-	
at I _F =5A	TA=25°C		0.46	-	V
	TA=125°C		0.38	-	
at I _F =10A	TA=25°C		0.53	0.59	
	TA=125°C		0.49	-	
Maximum Reverse Current at V _R =80V	TA=25°C	I _R	15	70	μΑ
	TA=125°C		9	-	mA

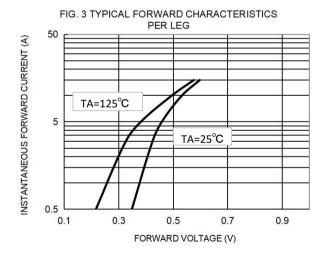
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

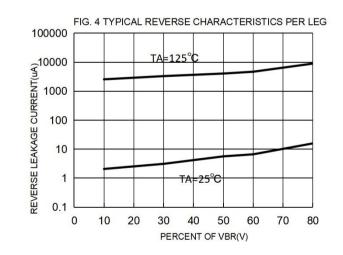


RATINGS AND CHARACTERISTIC CURVES



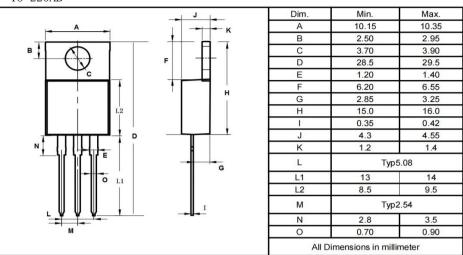




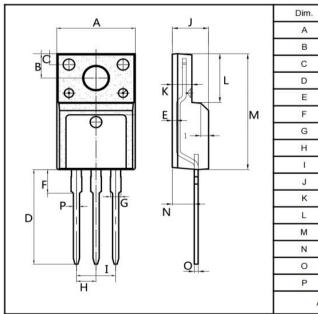


Package Outline Dimensions millimeters

TO-220AB

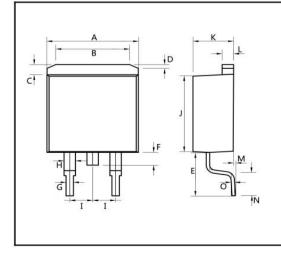


TO-220F



Dim.	Min.	Max.	
Α	9.95 10.25		
В	2.95 3.25		
С	1.25	1.45	
D	12.80	13.20	
E	0.40	0.60	
F	2.8	3.5	
G	1.30	1.45	
Н	Тур	2.54	
Ĩ	Typ 5.08		
J	4.5	5.0	
K	2.45	2. 65	
L	6.5	6.8	
M	15.4	16.0	
N	2.75	3.05	
0	0.45	0.55	
Р	0.70	0.90	

TO-263

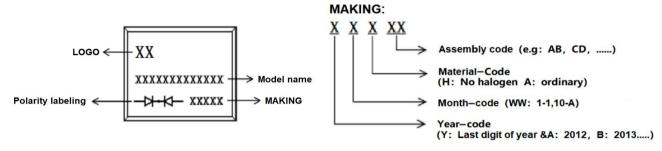


Dim.	Min.	Max.	
Α	10.10	10.35	
В	6	8	
С	1.2	1.5	
D	0.55	1.0	
E	4.3	5.3	
F	1.4	1.6	
G	0.75	0.85	
Н	1.2	1.5	
I	Typ2.54		
J	8.5	9.5	
K	4.3	4.55	
L	1.25	1.35	
M	0.02	0.23	
N	2.2	2.8	
0	0.3	0.4	
All Di	mensions in milli	meter	

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Marking on the body



Ordering information					
Part Number	Package	Unit Weight	Base Quantity	Delivery mode	
SBT20U80CT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton	
SBT20U80FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton	
SBT20U80DC	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton	
SBT20U80DC-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	内盒	外箱	
TO-220AB TO-220F TO-263				
	50pcs/管	1000pcs/盒	5000pcs/箱	
TO-263-R	11 11 11 11 11 11 11 11 11 11 11 11 11			
	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.