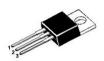
LOW VF SCHOTTKY RECTIFIER

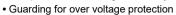




TO-220AB/CT TO-220F/FCT

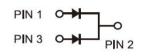
FEATURES

- Low forward voltage
- · High current capability
- High forward surge capability
- Low power losses, High efficiency









TO-263/DC

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 Io 2*20A VRRM 45V IFSM 250A VF 0.43V TJmax 150°C

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	- 10	20		
	Total		40	A	
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)					
TO-220AB,TO-263		R _{0 JC}	2	°C/W	
TO-220F			4		

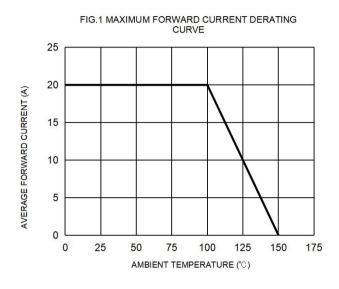
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

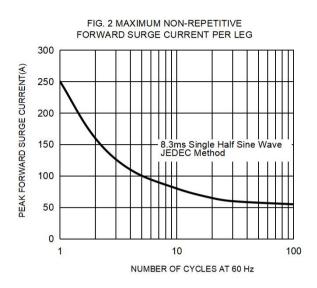
Electrical Characteristics	(Per Leg) ur	nless otherwi	se specified		
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I = 5 A	TA=25°C		0.37	-	
at I _F =5A	TA=125°C 0.27	0.27	-		
at I =10A	TA=25°C	V _F	0.41	-	V
at I _F =10A	TA=125°C		0.33	-	
at I =20.4	TA=25°C	1	0.47	0.55	
at I _F =20A	TA=125°C		0.43	-	
Maximum Reverse Current at V _R =45V	TA=25°C		90	200	μA
	TA=125°C	I _R	22	-	mA

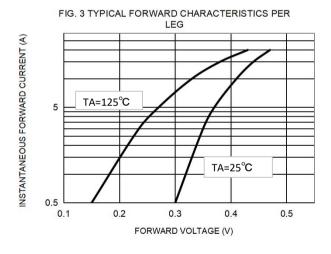
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

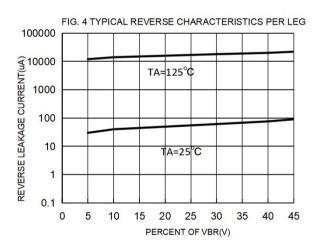


RATINGS AND CHARACTERISTIC CURVES



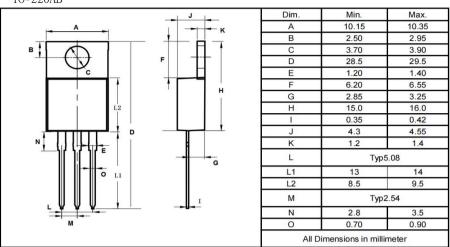




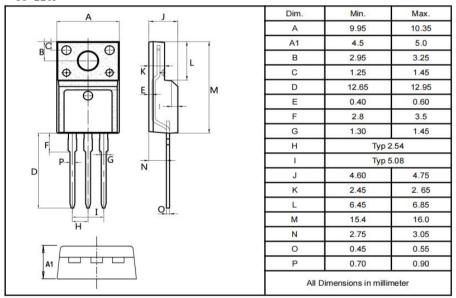


Package Outline Dimensions millimeters

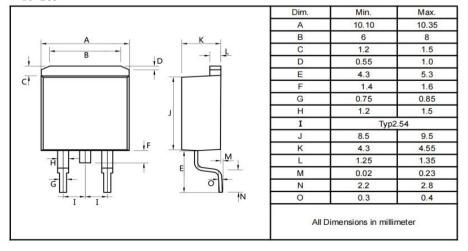
TO-220AB



TO-220F

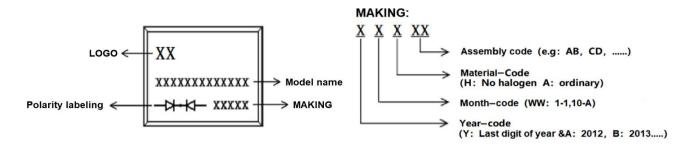


TO-263





Marking on the body



Ordering information				
Part Number	Package	Unit Weight	Base Quantity	Delivery mode
SBT40L45CT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
SBT40L45FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
SBT40L45DC	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton
SBT40L45DC-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 TO-262			250 250 250 250 250		
	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.