

OW VF SCHOTTKY RECTIFIER





TO-220AB/CT

TO-220F/FCT





PIN 2

TO-263/DC

Primary Characteristic		
Ι _ο	2*20A	
V _{RRM}	60V	
I _{FSM}	250A	
V _F	0.49V	
Tjmax	150 ℃	

FEATURES

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

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

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}	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	10	20	A
	Total		40	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	250	А
Operating Temperature Range		TJ	-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.

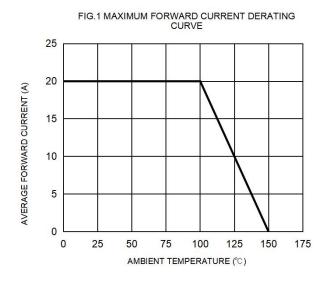
Electrical Characteristics (Per Leg) unless otherwise specified					
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
	TA=25°C	V _F	0.38	-	
at I _F =5A	TA=125°C		0.28	-	
at L = 10.4	TA=25°C		0.44	-	V
at I _F =10A	TA=125°C		0.36	-	
at L = 20 A	TA=25°C		0.53	0.60	
at I _F =20A	TA=125°C		0.49	-	
Maximum Reverse Current at V _R =60V	TA=25°C	- I _R	75	200	μA
Maximum Reverse Current at V _R =00V	TA=125°C		2.1	-	mA

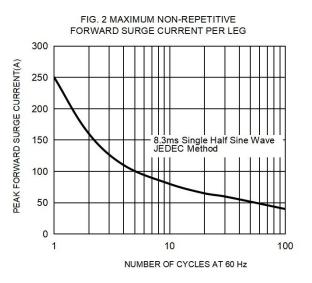
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

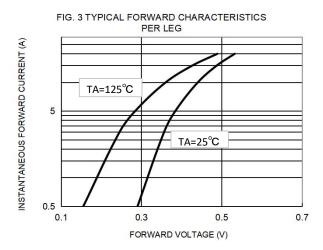


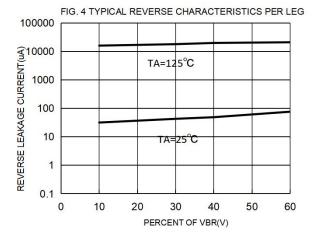


RATINGS AND CHARACTERISTIC CURVES











5.0

3.25

1.45

12.95

0.60

3.5 1.45

4.75

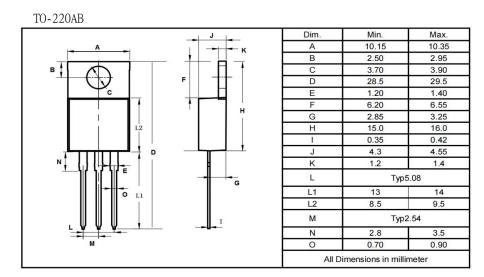
6.85

16.0 3.05

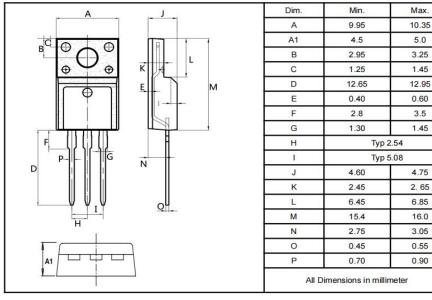
0.55

0.90

Package Outline Dimensions millimeters



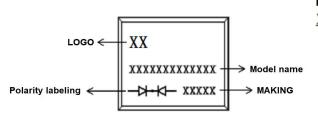
TO-220F



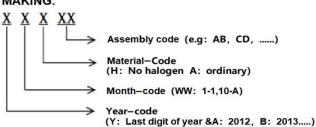
TO-263 Dim. Min. Max. 10.10 10.35 A B 6 8 С 1.2 1.5 В D D 0.55 1.0 E 4.3 5.3 ct F 1.4 1.6 G 0.75 0.85 Н 1.2 1.5 I Typ2.54 8.5 9.5 J F κ 4.3 4.55 M 1.35 L 1.25 4 E ÷ М 0.02 0.23 0 Ν 2.2 2.8 N 0 0.3 0.4 All Dimensions in millimeter



Marking on the body







Ordering infor

	Part Number	umber Package Unit Weig		Base Quantity	Delivery mode
ſ	SBT40L60CT TO-220AB 0.07oz(1.96g) 50 pcs / tube		1000pcs/box 5000pcs/carton		
	SBT40L60FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
	SBT40L60DC	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton
Γ	SBT40L60DC-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				
	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.