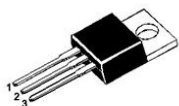
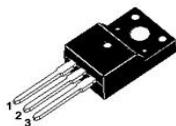
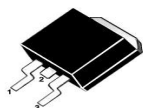


**SCHOTTKY BARRIER RECTIFIER**


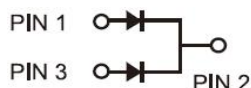
TO-220AB/CT



TO-220F/FCT



TO-263/DC


**FEATURES**

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


**RoHS**  
 COMPLIANT

**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**

$I_O$	2*20A
$V_{RRM}$	200V
$I_{FSM}$	450A
$V_F$	0.74V
$T_{Jmax}$	175°C

**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	$V_{RRM}$	200	V
Working Peak Reverse Voltage	$V_{RWM}$	200	V
Maximum DC Blocking Voltage	$V_{DC}$	200	V
Maximum Average Forward Rectified Current	$I_O$	Per Leg	20
		Total	40
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	450	A
Operating Temperature Range	$T_J$	-50 to +175	°C
Storage Temperature Range	$T_{STG}$	-50 to +175	°C
Typical Thermal Resistance (Note1)	$R_{\theta JC}$	TO-220AB,TO-263	2
		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)	$V_F$	Typ.	Max.	V
		at $I_F=5A$	0.73	
	TA=25°C	0.58	-	
	TA=125°C	0.82	0.88	
at $I_F=15A$		0.72	-	
	TA=25°C	0.84	0.90	
	TA=125°C	0.74	-	
Maximum Reverse Current at $V_R=200V$	$I_R$	TA=25°C	20	
		TA=125°C	0.3	mA

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

## RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

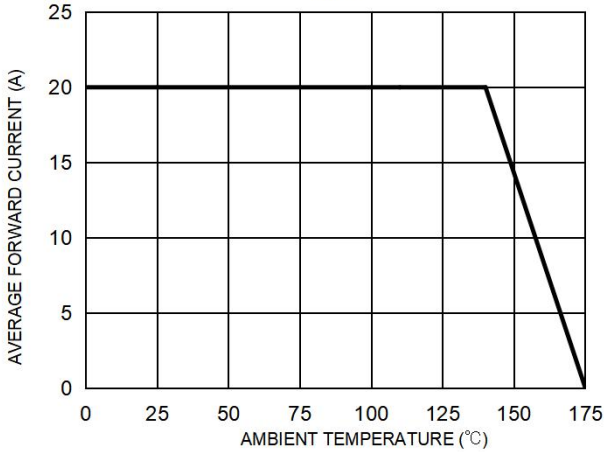


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

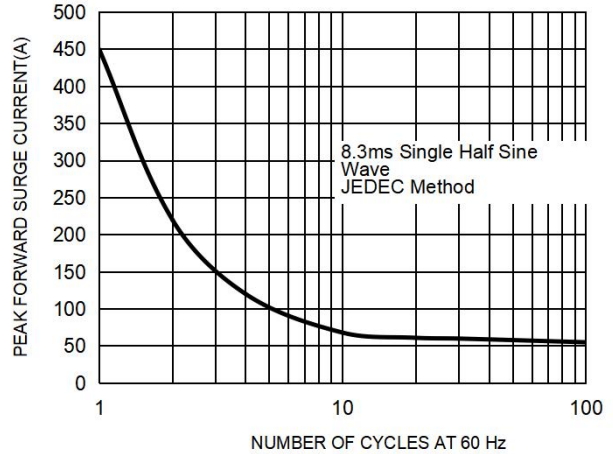


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

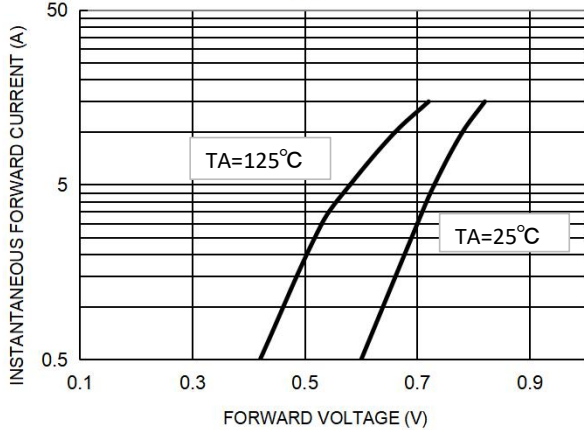
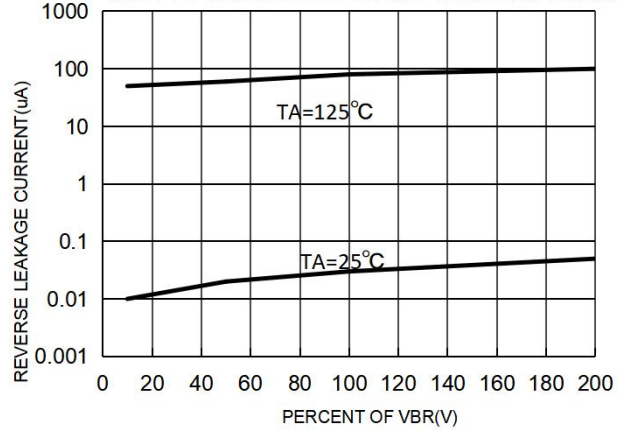
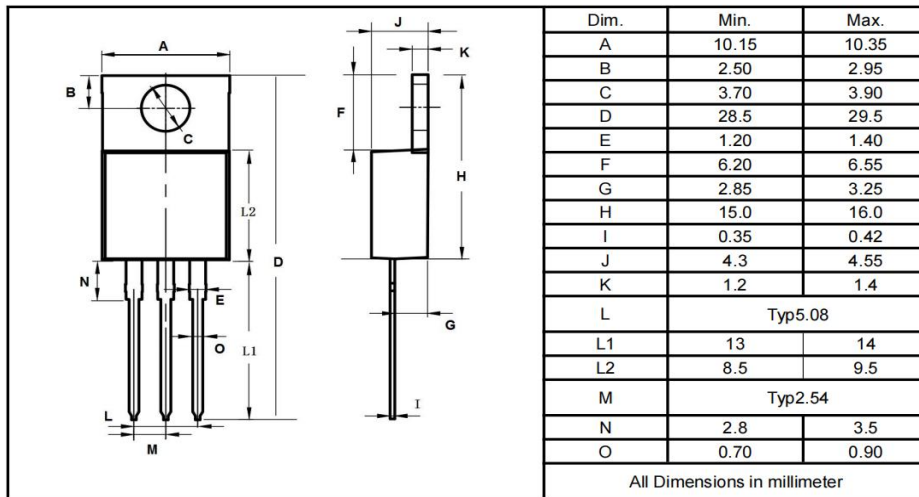


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

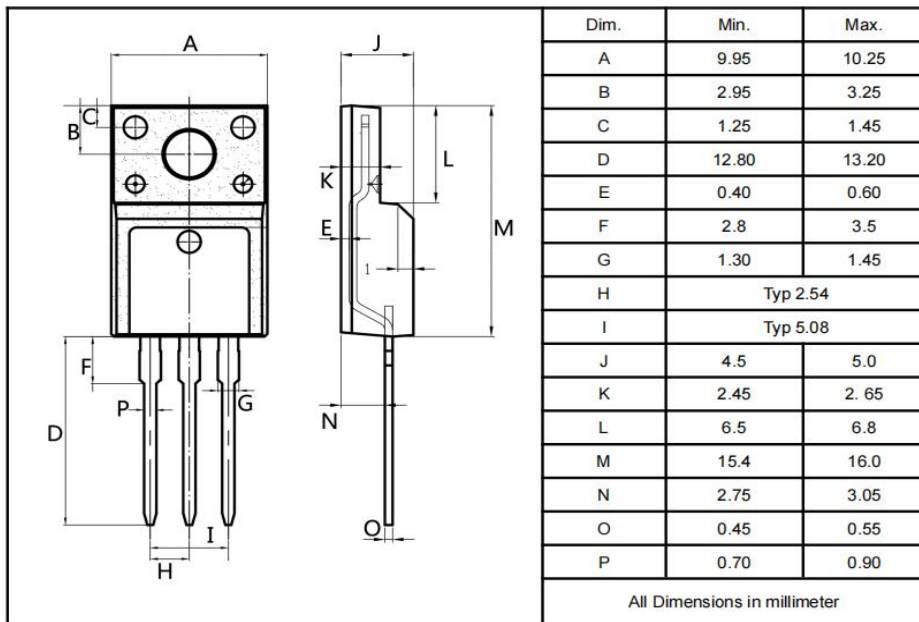


**Package Outline Dimensions millimeters**

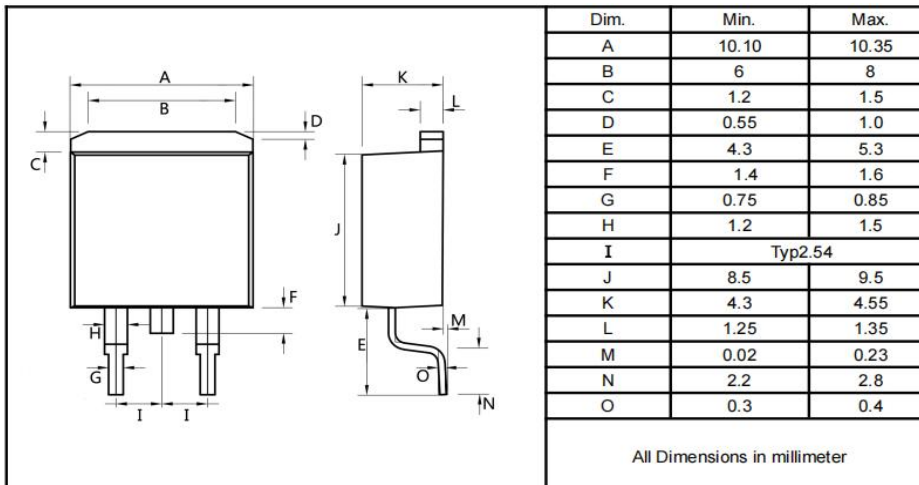
TO-220AB



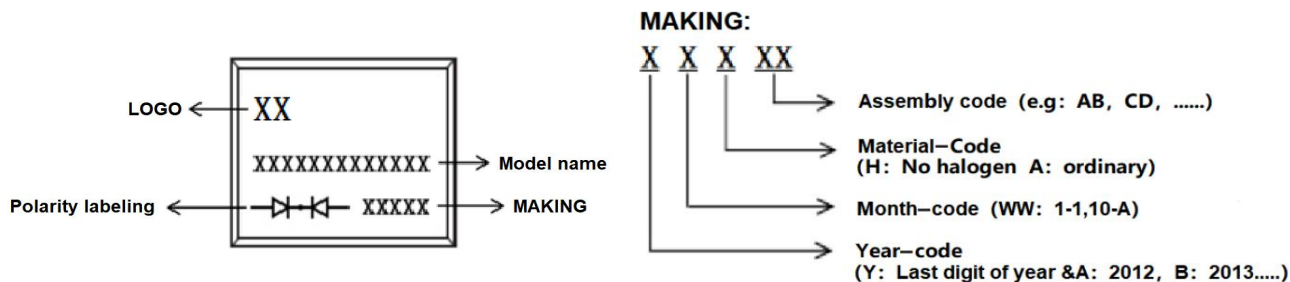
TO-220F



TO-263



## Marking on the body

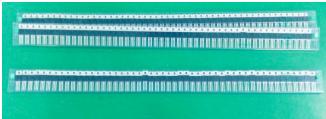
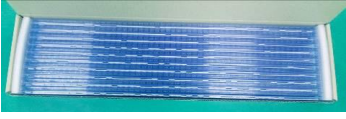


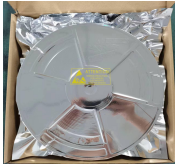



## Ordering information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MBR40200CT-B	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR40200FCT-B	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR40200DC-B	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MBR40200DC-R-B	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.