

MUR1660CT/FCT/DC/CS/D

ULTRAFAST RECOVERY RECTIFIERS





TO-220AB/CT



TO-263/DC



TO-252/CS

TO-251/D

Primary Characteristic				
Ι _ο	2*8A			
V _{RRM}	600V			
I _{FSM}	160A			
V _F	1.30V			
Trr	32ns			
T _u max	175 ℃			

FEATURES

- High speed switching capability
- High current capability
- High forward surge capability
- \bullet Low power losses, High efficiency
- High reliability
- For use in low voltage, high frequency inverters

APPLICATIONS

Fast recovery diode, mainly used for rectification, used in high-power equipment, The express and ultrafast recovery diodes are suitable for high frequency and ultra high frequency circuits, respectively

- 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
- \bullet Solder bath temperature 275 $^\circ\!\!\!\!^\circ C$ maximum,10s $\,$ per JESD 22-B106 $\,$

Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	600	V
Working Peak Reverse Voltage		V _{RWM}	600	V
Maximum DC Blocking Voltage		V _{DC}	600	V
Maximum Average Forward Rectified	Per Leg		8	٨
Current	Total	I _O	16	— A
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	160	A
Operating Temperature Range		TJ	175	°C
Storage Temperature Range		T _{STG}	-40 to +175	°C
Typical Thermal Resistance (Note1)				
TO-220AB,TO-263,TO-252,TO-251		R _{0 JC}	2	°C/W
TO-220F			4	

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

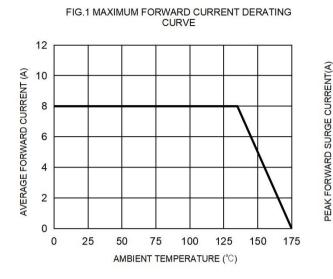
Electrical Characteristics (Per Leg) unless otherwise specified					
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
	TA=25°C] [1.29	-	
at I _F =5A	TA=125°C	V _F	1.16	-	V
at I _F =8A	TA=25°C		1.41	1.6	
	TA=125°C		1.30	-	
Maximum Reverse Current at V _R =600V	TA=25°C		0.1	3	μA
	TA=125°C	^I R	1.2	-	μA
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A,		Trr	32	35	ns

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





RATINGS AND CHARACTERISTIC CURVES



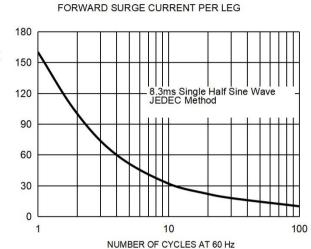
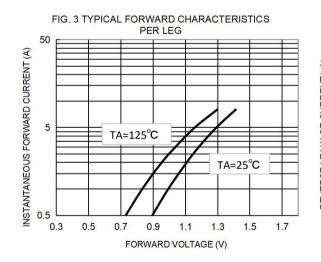
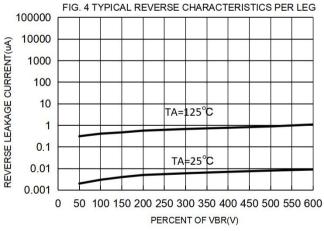


FIG. 2 MAXIMUM NON-REPETITIVE

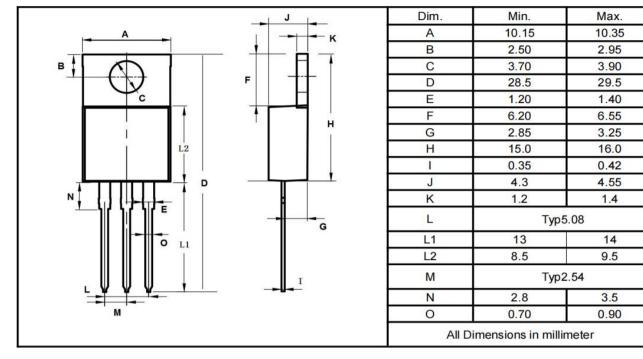




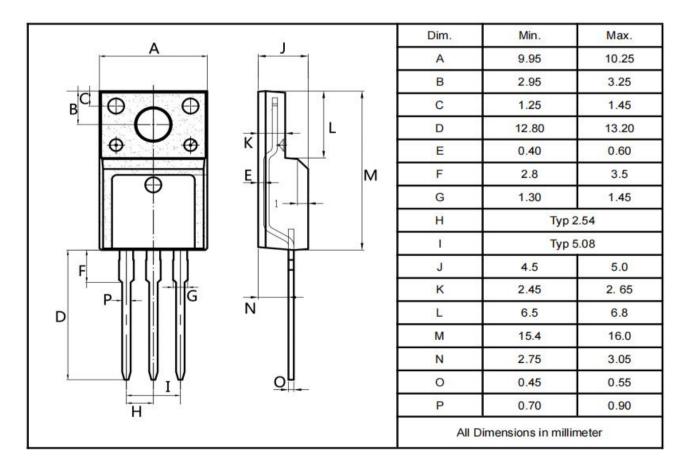


Package Outline Dimensions millimeters

TO-220AB



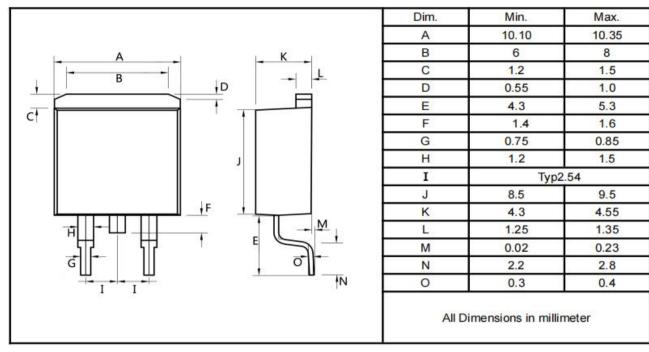
TO-220F



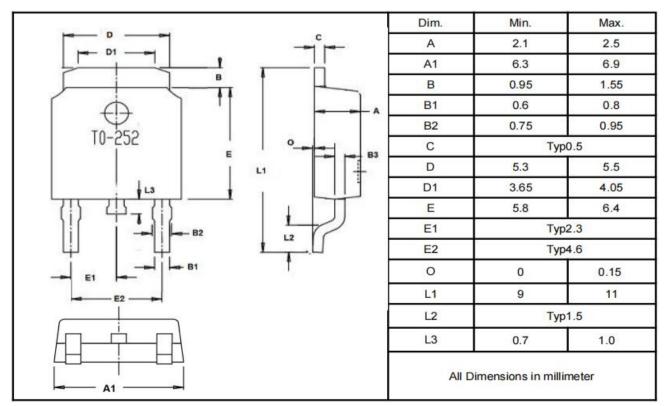


Package Outline Dimensions millimeters

TO-263



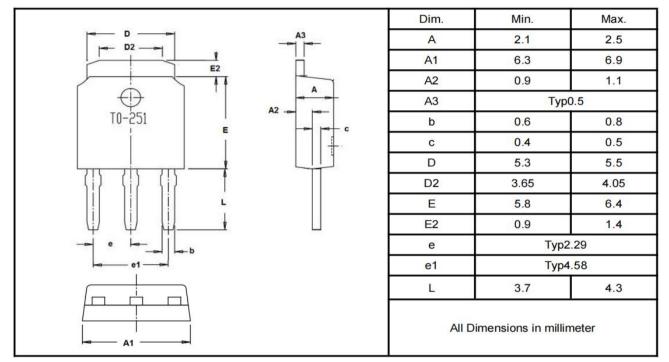
TO-252



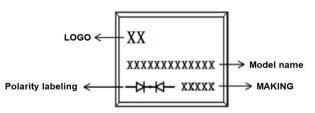


Package Outline Dimensions millimeters

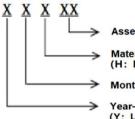
TO-251



Marking on the body



MAKING:



Assembly code (e.g: AB, CD,)

Material-Code (H: No halogen A: ordinary)

Month-code (WW: 1-1,10-A)

Year-code (Y: Last digit of year &A: 2012, B: 2013.....)

Ordering information				
Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MUR1660CT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MUR1660FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MUR1660DC	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MUR1660DC-R	TO-263	0.04oz(1.16g)	800 pcs / reel	1600pcs/box 8000pcs/carton
MUR1660CS	TO-252	0.011oz(0.32g)	2500 pcs / reel	5000pcs/box 25000pcs/carton
MUR1660D	TO-251	0.011oz(0.32g)	80 pcs / tube	4000pcs/box 24000pcs/carton

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



MUR1660CT/FCT/DC/CS/D

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	
TO-252				
	2500pcs/盘	5000pcs/盒	25000pcs/箱	
TO-251				
	80pcs/管	4000pcs/盒	24000pvs/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.