

MUR2020CT/FCT/DC/CS/D

COMPLIANT

ULTRAFAST RECOVERY RECTIFIERS



TO-220AB/CT

1233 TO-220F/FCT



PIN 1

PIN 3

TO-252/CS

0->

PIN 2

TO-263/DC



TO-251/D

Primary Characteristic		
Ι _ο	2*10A	
V _{RRM}	200V	
I _{FSM}	180A	
V _F	0.81V	
T _J max	150 ℃	

FEATURES

- High speed switching capability
- High current capability
- High forward surge capability
- 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

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 $^\circ\!\!\!\!^\circ C$ 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	Per Leg		10	۸
Current	Total	I _O	20	A
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	180	А
Operating Temperature Range		ТJ	150	°C
Storage Temperature Range		T _{STG}	-40 to +150	°C
Typical Thermal Resistance (Note1)				
TO-220AB,TO-263		R _{θJC}	2	°C/W
TO-220F		-	4	
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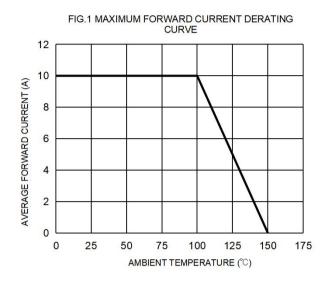
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

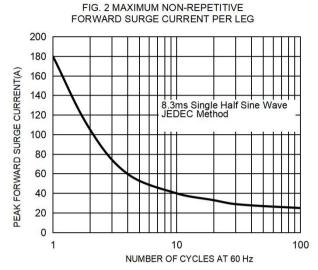
Electrical Characteristics (Per Leg) unless otherwise specified **Characteristics** Symbol Value Unit Forward Voltage Drop(Note2) Max. Тур. TA=25°C 0.77 at I_⊧=2A TA=125°C 0.63 TA=25°C 0.80 V VF at I_F=3A TA=125°C 0.67 TA=25°C 0.97 0.93 at I_F=10A TA=125°C 0.81 -TA=25°C 0.1 1 μA Maximum Reverse Current at V_R=200V I_R TA=125°C 5 μΑ -Maximum Reverse Recovery Time at I_F=0.5A, I_R=1A, Trr 35 ns

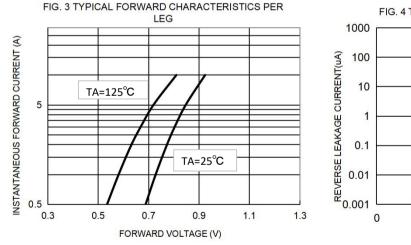
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

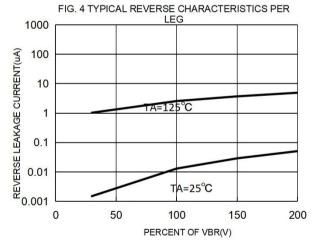


RATINGS AND CHARACTERISTIC CURVES





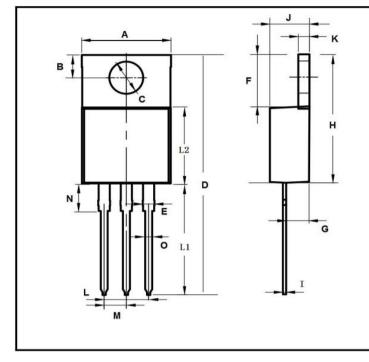






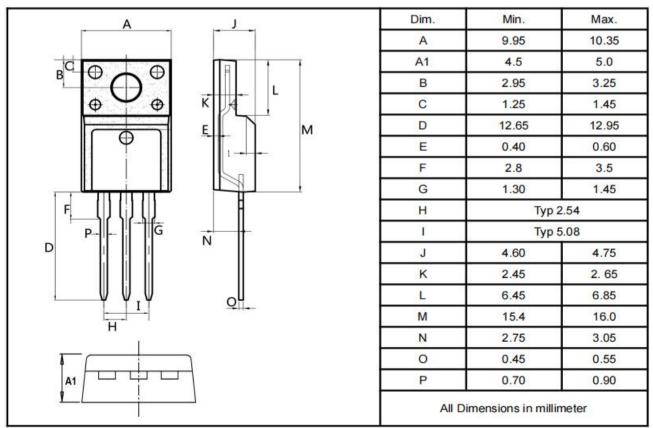
Package Outline Dimensions millimeters

TO-220AB



Dim.	Min.	Max.	
A	10.15	10.35	
B	2.50	2.95	
С	3.70	3.90	
D	28.5	29.5	
E	1.20	1.40	
F	6.20	6.55	
G	2.85	3.25	
Н	15.0	16.0	
1	0.35	0.42	
J	4.3	4.55	
К	1.2	1.4	
L	Typ5.08		
L1	13	14	
L2	8.5	9.5	
М	Тур2.54		
N	2.8	3.5	
0	0.70 0.90		
All Dimensions in millimeter			

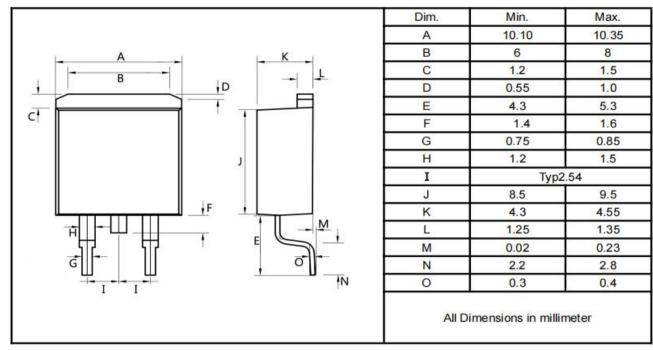
TO-220F



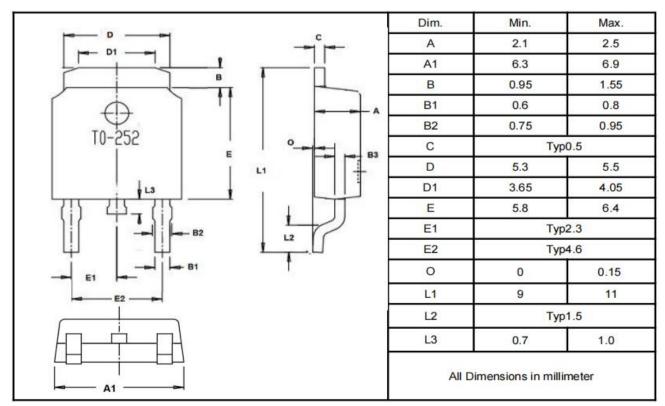


Package Outline Dimensions millimeters

TO-263



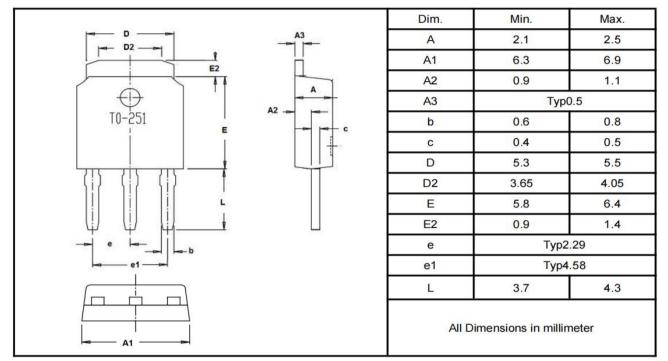
TO-252



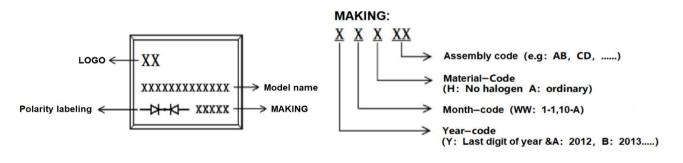


Package Outline Dimensions millimeters

TO-251



Marking on the body



Ordering information				
Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MUR2020CT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MUR2020FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MUR2020DC	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MUR2020DC-R	TO-263	0.04oz(1.16g)	800 pcs / reel	1600pcs/box 8000pcs/carton
MUR2020CS	TO-252	0.011oz(0.32g)	2500 pcs / reel	5000pcs/box 25000pcs/carton
MUR2020D	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.



MUR2020CT/FCT/DC/CS/D

PKG	最小包装	内盒	外箱
	取小 凶衣	۲۶m.	71 桁
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/盘	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.