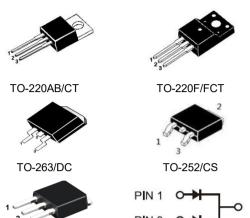


ULTRAFAST RECOVERY RECTIFIERS



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

TO-251/D

Primary Characteristic			
I _O	2*8A		
V_{RRM}	400V		
I _{FSM}	120A		
V_{F}	1.08V		
Trr	25ns		
T _J max	175℃		

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 Le	eg) at Ta=25	°C unles	s otherwise specified	
Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Volta	ige	V_{RRM}	400	V
Working Peak Reverse Voltage		V_{RWM}	400	V
Maximum DC Blocking Voltage		V_{DC}	400	V
Maximum Average Forward Rectified	vard Rectified Per Leg		8	۸
Current	Total	I _O	16	Α
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	120	Α
Operating Temperature Range		Τ _J	175	°C
Storage Temperature Range		T _{STG}	-55 to +175	°C
Typical Thermal Resistance (Note1)				
TO-220AB,TO-263,TO-252,TO-251		R _{0 JC}	2	°C/W
TO-220F			4	

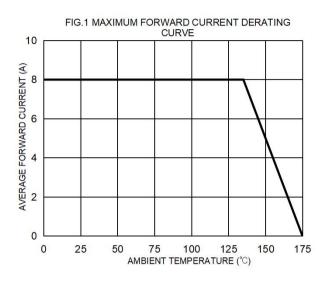
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

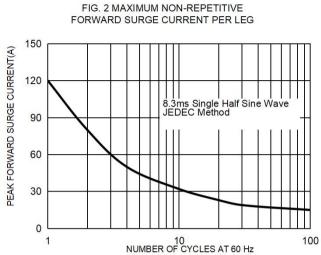
Electrical Characteristics (Per Leg) ur	nless other	erwise spe	cified	
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I = 3 A	TA=25°C		1.01	-	
at I _F =3A	TA=125°C		0.88	-	
at I _F =5A	TA=25°C	V _F	1.08	-	V
	TA=125°C		0.97	-	
at I _F =8A	TA=25°C		1.16	1.35	
	TA=125°C		1.08	-	
Maximum Reverse Current at V _R =400V	TA=25°C	_	0.10	3	μA
	TA=125°C	I _R	2	-	μA
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A,		Trr	25	30	ns
N 1 0 D 1 1 1 000 1 1 1 1 1 1 0 1	1 / 1	•			

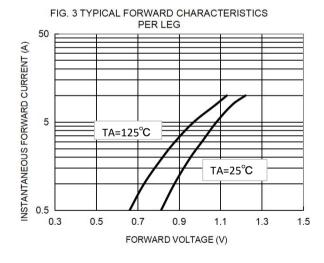
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

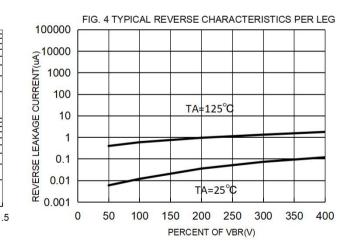


RATINGS AND CHARACTERISTIC CURVES



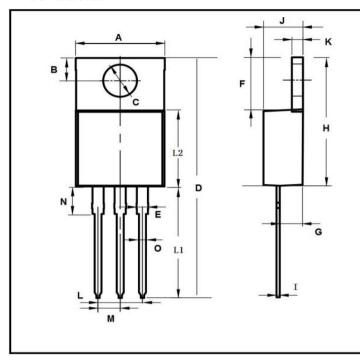






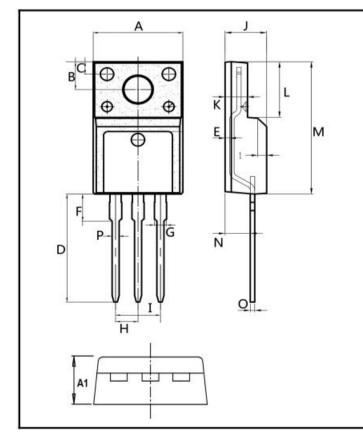
Package Outline Dimensions millimeters

TO-220AB



Dim.	Min.	Max.		
Α	10.15	10.35		
В	2.50	2.95		
С	3.70	3.90		
D	28.5	29.5		
Е	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		
K	1.2	1.4		
L	L Typ5.08			
L1	13	14		
L2	8.5	9.5		
M	Typ2.54			
N	2.8	3.5		
0	0.70	0.90		
All Dimensions in millimeter				

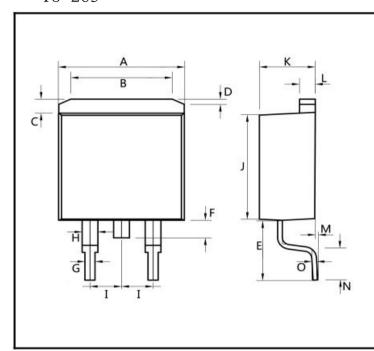
TO-220F



Dim.	Min.	Max.	
Α	9.95	10.35	
A1	4.5	5.0	
В	2.95	3.25	
С	1.25	1.45	
D	12.65	12.95	
E	0.40	0.60	
F	2.8	3.5	
G	1.30	1.45	
Н	Typ 2.54		
1	Typ 5.08		
J	4.60	4.75	
K	2.45	2. 65	
L	6.45	6.85	
M	15.4	16.0	
N	2.75	3.05	
0	0.45	0.55	
Р	0.70	0.90	

Package Outline Dimensions millimeters

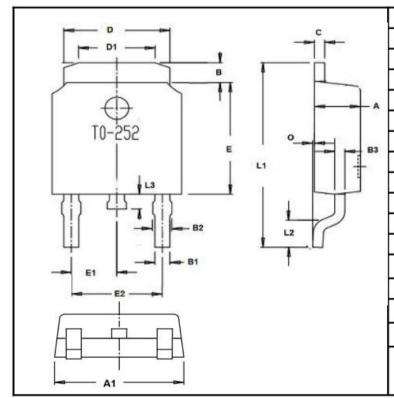
TO-263



Dim.	Min.	Max.	
Α	10.10	10.35	
В	6	8	
С	1.2	1.5	
D	0.55	1.0	
E	4.3	5.3	
F	1.4	1.6	
G	0.75	0.85	
Н	1.2	1.5	
I	Typ2.54		
J	8.5	9.5	
K	4.3	4.55	
L	1.25	1.35	
M	0.02	0.23	
N	2.2	2.8	
0	0.3	0.4	

All Dimensions in millimeter

TO-252

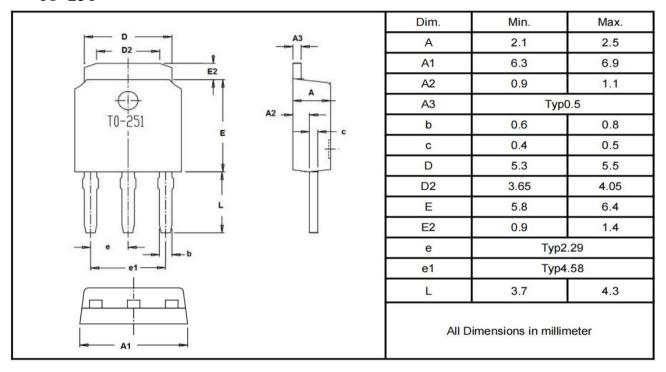


Dim.	Min.	Max	
Α	2.1	2.5	
A1	6.3	6.9	
В	0.95	1.55	
B1	0.6	0.8	
B2	0.75	0.95	
С	Тур	0.5	
D	5.3	5.5	
D1	3.65	4.05	
E	5.8	6.4	
E1	Тур	2.3	
E2	Typ4.6		
0	0	0.15	
L1	9	11	
L2	Typ1.5		
L3	0.7	1.0	

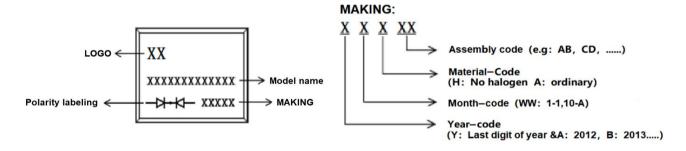
All Dimensions in millimeter

Package Outline Dimensions millimeters

TO-251



Marking on the body



Ordering information						
Part Number	Package	Unit Weight	Base Quantity	Delivery mode		
MUR1640CT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton		
MUR1640FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton		
MUR1640DC	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton		
MUR1640DC-R	TO-263	0.04oz(1.16g)	800 pcs / reel	1600pcs/box 8000pcs/carton		
MUR1640CS	TO-252	0.04oz(1.16g)	2500 pcs / reel	5000pcs/box 25000pcs/carton		
MUR1640D	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.



packing instruction

PKG	最小包装	内盒	外箱
TO-220AB TO-220F TO-263			Bac Bac Bac Bac
	50pcs/管	1000pcs/盒	5000pcs/箱
TO-263-R	11 M M M M M M M M M		
	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.