

MUR1640CT/FCT/DC

ULTRAFAST RECOVERY RECTIFIERS





TO-220AB/CT



TO-263/DC

TO-220F/FCT

Primary Characteristic			
Ι _ο	2*8A		
V _{RRM}	400V		
I _{FSM}	120A		
V _F	1.1V		
T _J max	150 ℃		
Assembly code	XX		

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 highequipment, The express and ultrafast recovery diodes are suitable 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 °C maximum,10s per JESD 22-B106

Characteristics	Symbo	I Value	Unit
Maximum Repetitive Peak Reverse Voltage		400	V
Working Peak Reverse Voltage		400	V
Maximum DC Blocking Voltage		400	V
Maximum Average Forward Rectified Current	Per Leg	8	
	Total I _o	16	— A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave		120	Α
Operating Temperature Range		150	°C
Storage Temperature Range		-40 to +150	°C
Typical Thermal Resistance (Note1)	T _{STG}		
TO-220AB,TO-263 TO-220F		2	°C/W
		4	

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

Electrical Characteristics (Pe	er Leg) unles	s otherwi	se specified		
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)		_	Тур.	Max.	
-++ 0.0	TA=25°C		1.01	-	
at I _F =3A	TA=125°C		0.87	-	
at I _F =5A	TA=25°C	V _F	1.10	-	V
	TA=125°C		0.96	-	
at I _F =8A	TA=25°C		1.20	1.39	
	TA=125°C		1.10	-	
Maximum Reverse Current at V _R =400V	TA=25°C	I _R	0.10	1.00	μA
	TA=125°C		10.00	-	μA
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A, I _{RR} =0.25A		Trr	-	35.00	ns

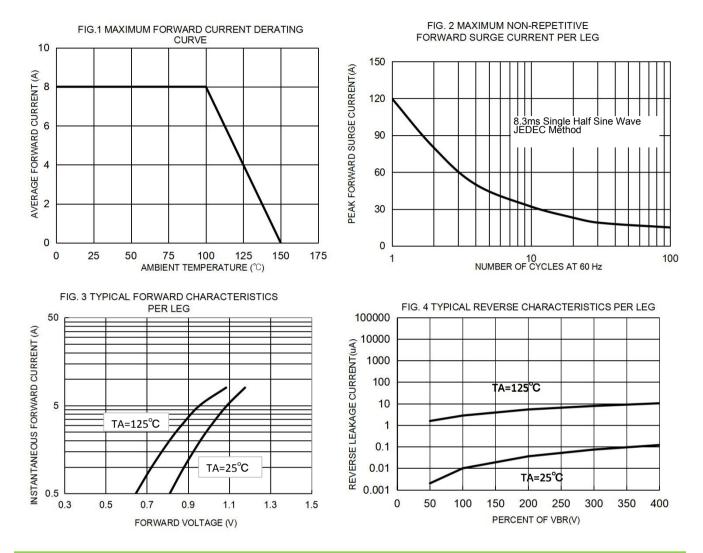
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle



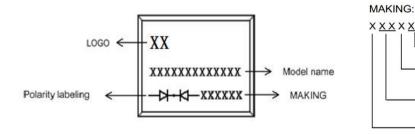


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RATINGS AND CHARACTERISTIC CURVES



Marking on the body



X X X X X Assembly code (e.g : AB,CD,.....) Material -Code (H:No halogen A:ordinary) Week - code (WW:01~52) Year - code

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

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	800pcs/box 4000pcs/carton

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



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Max.

10.35

2.95

3.90

29.5

1.45 6.55

3.3

16.0

0.42

4.55

1.35

3.3

0.84

Max.

10.25

3.25

1.45

13.25

0.65

3.3

1.45

4.75 2.65

6.55

16.0

3.05

0.52

0.84

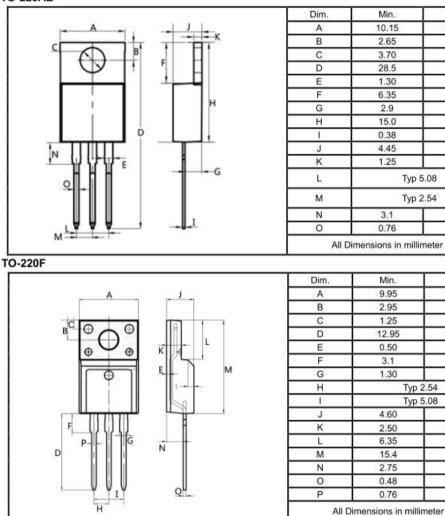
Typ 2.54 Typ 5.08

Typ 5.08

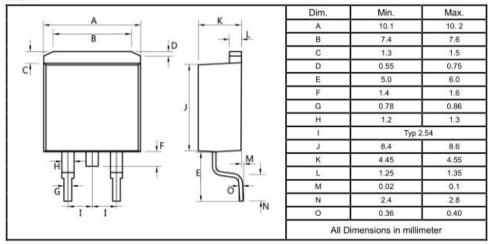
Typ 2.54

Package Outline Dimensions millimeters

TO-220AB



TO-263



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.