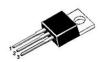


# MUR1630CT/FCT/DC

#### **ULTRAFAST RECOVERY RECTIFIERS**

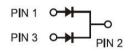




TO-220AB/CT

TO-220F/FCT





TO-263/DC

#### **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 plasticPolarity: As markedMounting 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

Primary Characteristic			
I <sub>O</sub>	2*8A		
$V_{RRM}$	300V		
I <sub>FSM</sub>	130A		
$V_{F}$	0.98V		
T <sub>J</sub> max	150℃		
Assembly code	XX		

Maximum Ratings (Per Leg) at Ta=25°0	C unless oth	nerwise specified	
Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	300	V
Working Peak Reverse Voltage	$V_{RWM}$	300	V
Maximum DC Blocking Voltage	$V_{DC}$	300	V
Mayirayan Ayarana Famyand Bactified Company		8	Δ.
Maximum Average Forward Rectified Current Total		16	Α
Peak Forward Surge Current,8.3 ms Single Half Sine-wave	I <sub>FSM</sub>	130	Α
Operating Temperature Range	TJ	150	°C
Storage Temperature Range	T <sub>STG</sub>	-40 to +150	°C
Typical Thermal Resistance (Note1)			
TO-220AB,TO-263	R <sub>0 JC</sub>	2	°C/W
TO-220F		4	

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

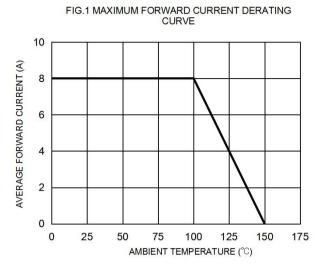
<b>Electrical Characteristics (Policy Characteristics (P</b>	er Leg) unles	s otherwi	se specified		
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I <sub>F</sub> =2A	TA=25°C		0.90	-	
	TA=125°C		0.62	-	
at I <sub>F</sub> =3A	TA=25°C	$V_{F}$	0.95	-	V
	TA=125°C		0.68	-	
at I <sub>F</sub> =8A	TA=25°C		1.10	1.20	
	TA=125°C		0.98	-	
Maximum Reverse Current at V <sub>R</sub> =300V	TA=25°C		0.05	1	μΑ
	TA=125°C	I <sub>R</sub>	5	-	μA
Maximum Reverse Recovery Time at I <sub>E</sub> =0.5A, I <sub>R</sub> =1A, I <sub>RR</sub> =0.25A		Trr	-	35	ns

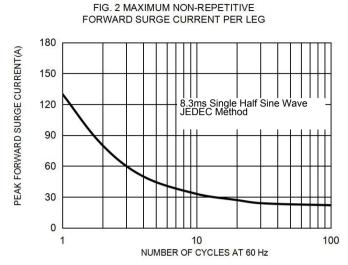
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

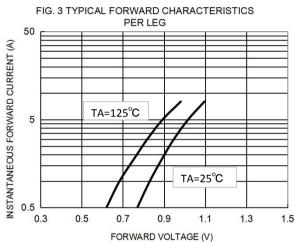


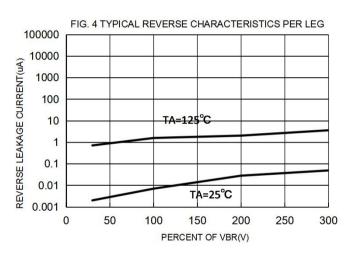
# MUR1630CT/FCT/DC

### RATINGS AND CHARACTERISTIC CURVES

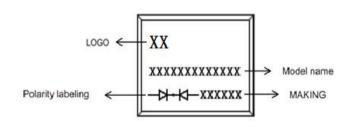


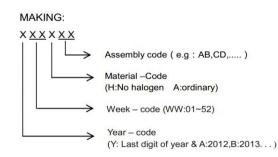






#### Marking on the body





Ordering information				
Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MUR1630CT	TO-220AB	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MUR1630FCT	TO-220F	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MUR1630DC	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MUR1630DC-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.

www.dglxdz.com 2 of 3 Date:10/04/2018 Rev:01



# MUR1630CT/FCT/DC

Max.

10.25

3.25

1.45

13.25

0.65

3.3

1.45

4.75

6.55

16.0

3.05

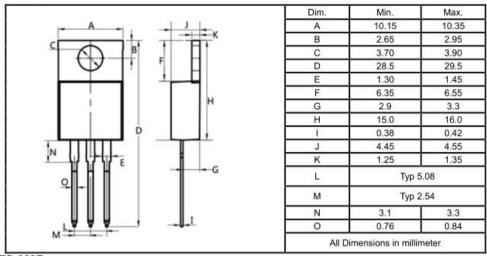
0.52

0.84

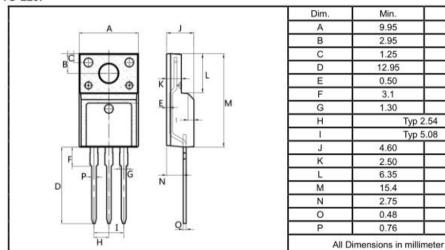
Typ 2.54 Typ 5.08

# Package Outline Dimensions millimeters

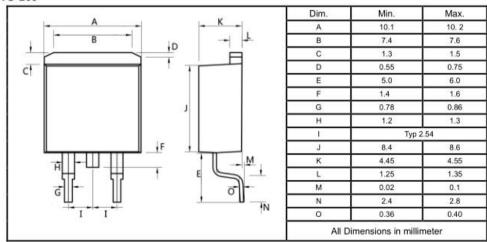
#### TO-220AB



TO-220F



 -	-	-
 	ь	-



#### 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.

www.dglxdz.com 3 of 3 Date:10/04/2018 Rev:01