

MUR1560/F/D

ULTRAFAST RECOVERY RECTIFIERS

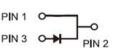




TO-220AC/

TO-220FAC/F





TO-263/D

Primary Characteristic		
Ι _ο	15A	
V _{RRM}	600V	
I _{FSM}	270A	
V _F	1.09V	
Trr	32ns	
TJmax	175 ℃	

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 $^\circ\!\!\mathbb C$ 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}	600	V
Working Peak Reverse Voltage	V _{RWM}	600	V
Maximum DC Blocking Voltage	V _{DC}	600	V
Maximum Average Forward Rectified Current	l _o	15	А
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	270	A
Operating Temperature Range	TJ	175	°C
Storage Temperature Range	T _{STG}	-55 to +175	°C
Typical Thermal Resistance (Note1)			
TO-220AC,TO-263	R _{0 JC}	2	°C/W
TO-220FAC	÷	4	

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

Electrical Characteristics (I	⊃er Leg) ui	nless othe	rwise spe	cified	
Characteristics		Symbol	V	alue	Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
ot L = E A	TA=25°C]	1.04	-	
at I _F =5A	TA=125°C		0.87	-	
ot L = 10.4	TA=25°C	V _F	1.15	-	V
at I _F =10A	TA=125°C		1.00	-	
at I _F =15A	TA=25°C		1.23	1.60	
	TA=125°C		1.09	-	
Maximum Reverse Current at V _R =600V	TA=25°C	I _R	0.1	2	μA
	TA=125°C		3.5	-	μA
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A,		Trr	32	40	ns

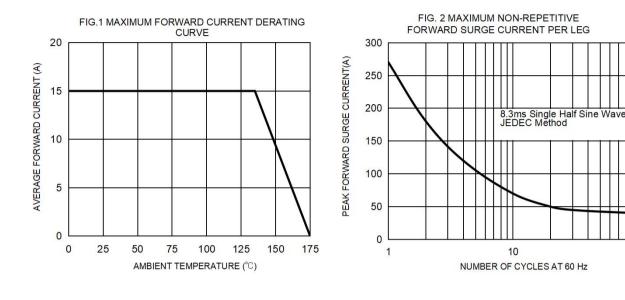
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

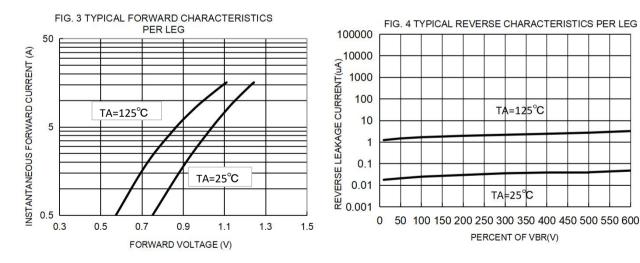


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RATINGS AND CHARACTERISTIC CURVES



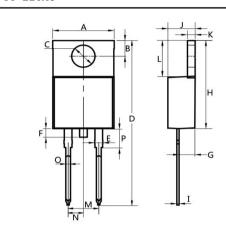






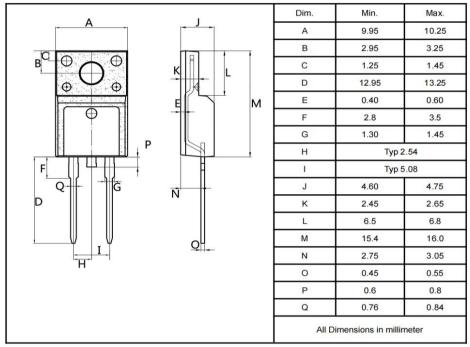
Package Outline Dimensions millimeters

TO-220AC

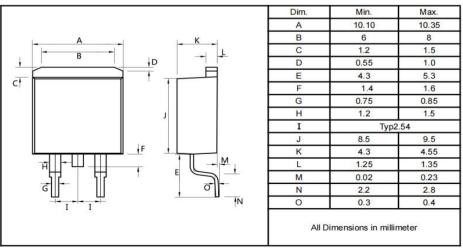


Dim.	Min.	Max.		
A	10.15	10.35		
В	2.65	2.95		
С	3.70	3.90		
D	28.5	29.5		
E	1.3	1.45		
F	0.8	1.1		
G	2.9	3.3		
Н	15.0	16.0		
L	0.38	0.42		
J	4.45	4.55		
к	1.25	1.35		
L	6.35	6.55		
M	M Typ 5.08			
N	Typ 2.54			
0	0.76	0.84		
Р	3.1	3.3		
All D	imensions in milli	meter		

TO-220FAC



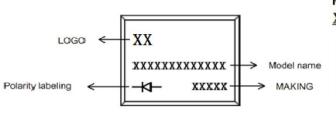
TO-263





MUR1560/F/D

Marking on the body





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

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

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

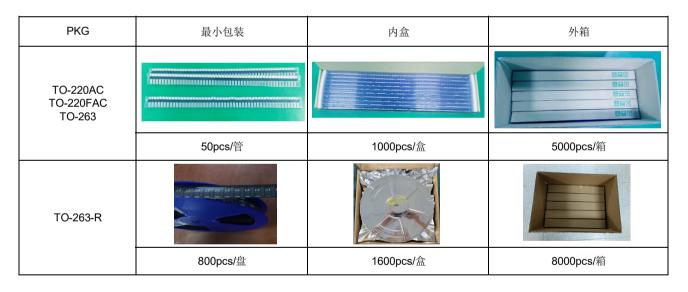
Year-code (Y: Last digit of year &A: 2012, B: 2013.....)

Ordering information

Ordening information					
Part Number	Package	Base Quantity	Delivery mode		
MUR1560	TO-220AC	50 pcs / tube	1000pcs/box 5000pcs/carton		
MUR1560F	TO-220FAC	50 pcs / tube	1000pcs/box 5000pcs/carton		
MUR1560D	TO-263	50 pcs / tube	1000pcs/box 5000pcs/carton		
MUR1560D-R	TO-263	800 pcs / reel	1600pcs/box 8000pcs/carton		

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

packing instruction



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.