

ULTRAFAST RECOVERY RECTIFIERS

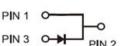




TO-220AC/

TO-220FAC/F





TO-263/D

Primary Characteristic		
Ι _ο	10A	
V _{RRM}	600V	
I _{FSM}	230A	
V _F	1.13V	
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 $^\circ\!\!\!\!^\circ C$ maximum,10s $\,$ per JESD 22-B106 $\,$

Maximum Ratings at Ta=25°C unless otherwise specified			
Symbol	Value	Unit	
V _{RRM}	600	V	
V _{RWM}	600	V	
V _{DC}	600	V	
I _O	10	А	
I _{FSM}	230	А	
TJ	175	°C	
T _{STG}	-55 to +175	°C	
R _{0 TC}	2	°C/W	
	4		
	Symbol V _{RRM} V _{DC} Io I _{SSM} T _J T _{STG} R _{θ JC}	$\begin{tabular}{ c c c c c } \hline Symbol & Value \\ \hline V_{RRM} & 600 \\ \hline V_{RWM} & 600 \\ \hline V_{DC} & 600 \\ \hline I_0 & 10 \\ \hline I_{FSM} & 230 \\ \hline T_J & 175 \\ \hline T_{STG} & -55 \text{ to } +175 \\ \hline \end{tabular}$	

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

Electrical Characteristics unless otherwise specified

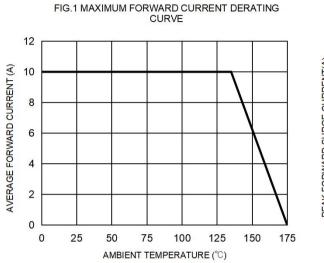
Electrical characteristics differences operation and specified					
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I _F =3A	TA=25°C]	1.02	-	
	TA=125°C		0.88	-	
at I _F =5A	TA=25°C	V _F	1.11	-	V
	TA=125°C		0.98	-	
ot L =104	TA=25°C		1.25	1.60	
at I _F =10A	TA=125°C		1.13	-	
Maximum Reverse Current at V _R =600V	TA=25°C	I _R	0.05	2	μA
	TA=125°C		3	-	μA
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A,		Trr	32	35	ns

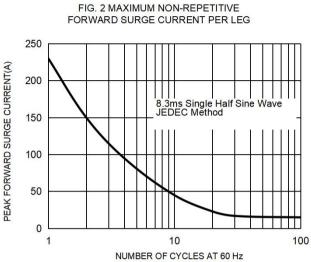
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

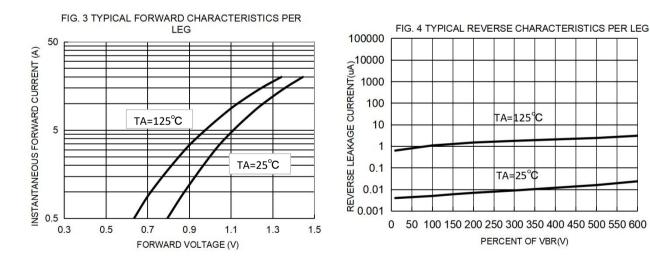




RATINGS AND CHARACTERISTIC CURVES



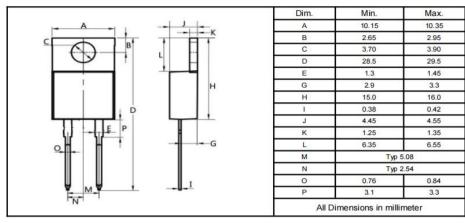




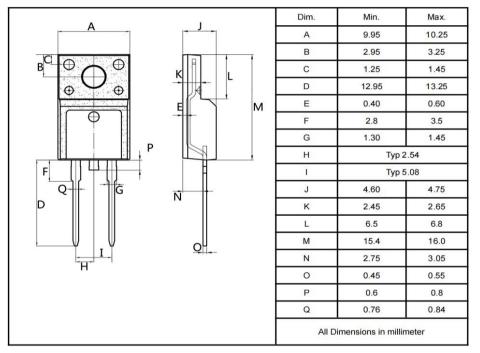


Package Outline Dimensions millimeters

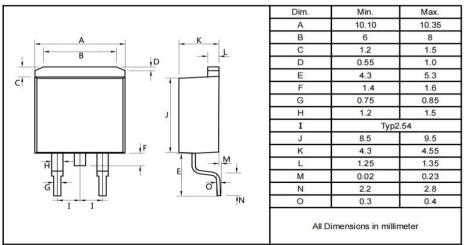
TO-220AC



TO-220FAC

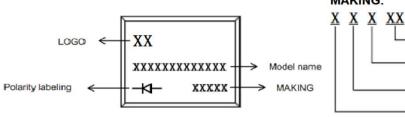


TO-263





Marking on the body



MAKING:

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

Part Number	Package	Unit Weight	Base Quantity	Delivery mode	
MUR1060	TO-220AC	0.07oz(1.96g)	50 pcs / tube	1000pcs/box 5000pcs/carton	
MUR1060F	TO-220FAC	0.06oz(1.74g)	50 pcs / tube	1000pcs/box 5000pcs/carton	
MUR1060D	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton	
MUR1060D-R	TO-263	0.04oz(1.16g)	800 pcs / reel	1600pcs/box 8000pcs/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-220AC TO-220FAC TO-263			
	50pcs/管	1000pcs/盒	5000pcs/箱
TO-263-R			
	800pcs/盘	1600pcs/盒	8000pcs/ 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.