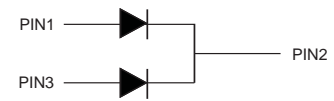
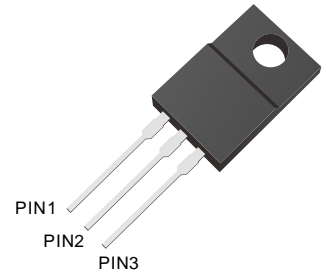


## Fast Recovery Epi Diodes

### Features

- High frequency operation
- High surge forward current capability
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275°C max. 7s, per JESD 22-B106
- Lead free in comply with EU RoHS 2011/65/EU directives



### Mechanical data

- Case: ITO-220AB
- Approx. Weight: 1.561g ( 0.055oz)
- Case Material: “Green” molding compound, UL flammability classification 94V-0, “Halogen-free”.

### Ordering Information

Part Number	Shipping	Packing Type
LTMU2020FD THRU LTMU2060FD	5000PCS/Carton	Tube

### Maximum Ratings and Electrical Characteristics

Ratings At 25°C Ambient Temperature Unless Otherwise Specified

Characteristics	Symble	LTMU2020FD	LTMU2040FD	LTMU2060FD	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	400	600	V
Maximum RMS voltage	$V_{RMS}$	140	280	420	V
Maximum DC Blocking Voltage	$V_{DC}$	200	400	600	V
Maximum Average Forward Rectified Current Per leg Per device	$I_{F(AV)}$		10 20		A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)(Per leg)	$I_{FSM}$		150		A
Max Instantaneous Forward Voltage at 10 A (Per leg)	$V_F$	1.0	1.3	1.6	V
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Reverse Voltage $T_a = 125^\circ\text{C}$	$I_R$		10 500		$\mu\text{A}$
Maximum Reverse Recovery Time (NOTE1)	$t_{rr}$		35		ns
Typical Thermal Resistance	$R_{\theta JC}$		4		$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_j$		-55 ~ +150		$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$		-55 ~ +150		$^\circ\text{C}$

Note:(1) Reverse recovery test conditions  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{rr}=0.25\text{A}$



Characteristics Curves

Fig.1 Forward Current Derating Curve

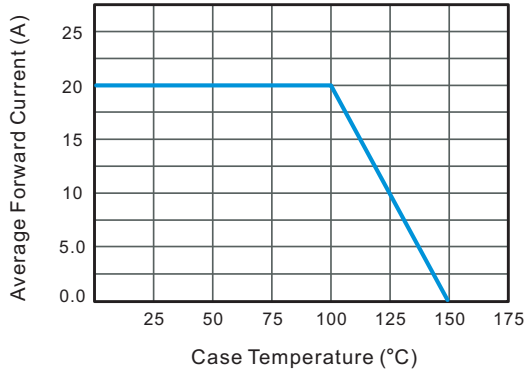


Fig.2 Typical Instantaneous Reverse Characteristics

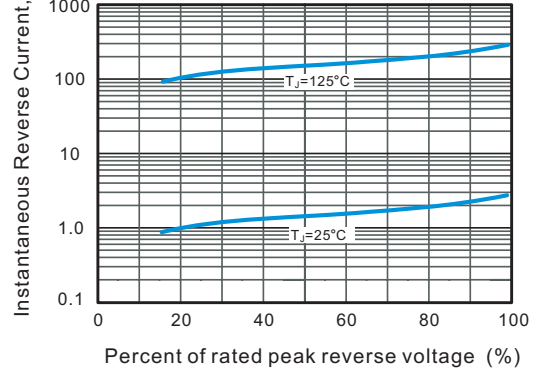


Fig.3 Typical Forward Characteristic

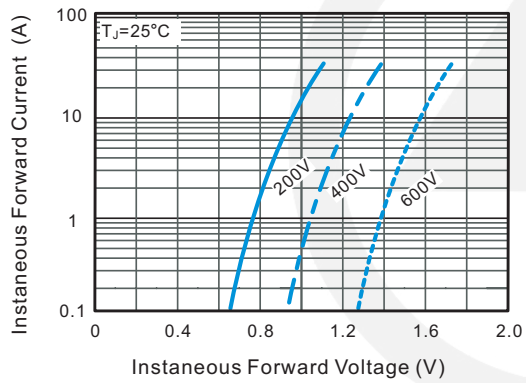
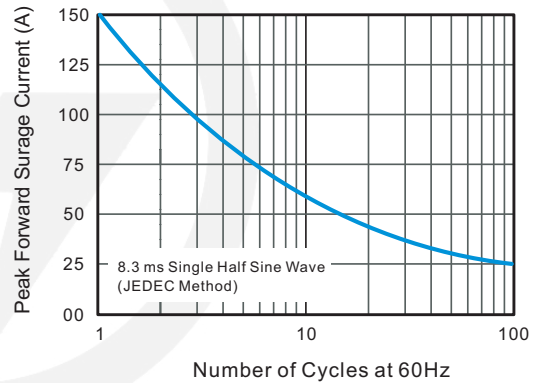
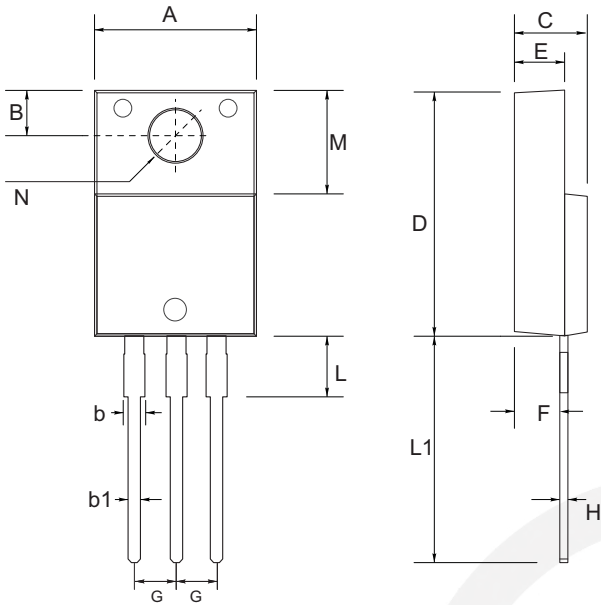


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



## ITO-220AB Package Outline



Symbol	Dimensions In Millimeters	
	Min.	Max.
A	9.85	10.50
B	2.54	2.85
b	1.10	1.40
b1	0.50	0.80
C	4.40	4.70
D	14.70	16.00
E	2.50	2.90
F	2.50	2.80
G	2.54 TYP.	
H	0.41	0.70
L	2.30	2.90
L1	13.00	14.30
M	6.30	7.00
N	3.4 TYP.	

### Marking

Type number	Marking code
LTMU2020FD	MUR2020FD
LTMU2040FD	MUR2040FD
LTMU2060FD	MUR2060FD

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## Version Update Information

Series NO.	Enactment/Revision Date	Effective Date	Version	Revision content	Revision Reason	Revision Person	Note
01	2024.4.13	2024.4.13	1.0	New File	/	Ding	