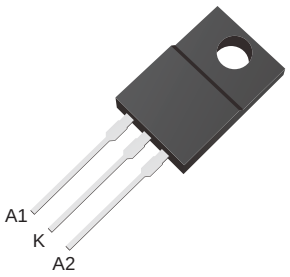
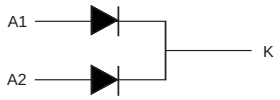
LTM2040FT THRU LTM20200FT

Schottky Barrier Rectifiers

Features



- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed
- Mounting position: any
- Lead free in comply with EU RoHS 2011/65/EU directives



Mechanial Data

- Case: ITO-220AB
- Case Material: “Green” molding compound, UL flammability classification 94V-0,“Halogen-free”
- MSL3

Ordering Information

Part Number	Shipping	Packing Type
LTM2040FT THRU LTM20200FT	50PCS/Tube	Tube

Maximum Ratings & Electrical characteristics (Ta=25°C unless otherwise noted)

characteristics	Symbols	LTM2040FT	LTM2045FT	LTM2060FT	LTM20100FT	LTM20150FT	LTM20200FT	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	31.5	42	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	40	45	60	100	150	200	V
Maximum Average Forward Rectified Current per diode / 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 diode	I_{FSM}	150						A
Max Instantaneous Forward Voltage at 10A(per diode)	V_F	0.70		0.75	0.85	0.90	0.92	V
Maximum DC Reverse Current at Rated DC Reverse Voltage T_a = 25°C / T_a =125°C	I_R	0.1 / 20			0.05 / 20			mA
Typical Junction Capacitance (Note1)	C_j	600		400				pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	45						°C/W
Operating Junction Temperature Range	T_j	-55 ~ +150				-55 ~ +175		°C
Storage Temperature Range	T_{stg}	-55 ~ +150				-55 ~ +175		°C

Note: (1) Measured at 1 MHz and applied reverse voltage of 4 V D.C
(2) PCB mounted with 10cmX10cmX1mm copper pad areas.

Characteristic Curves

Fig.1 Typical Forward Current Derating Curve

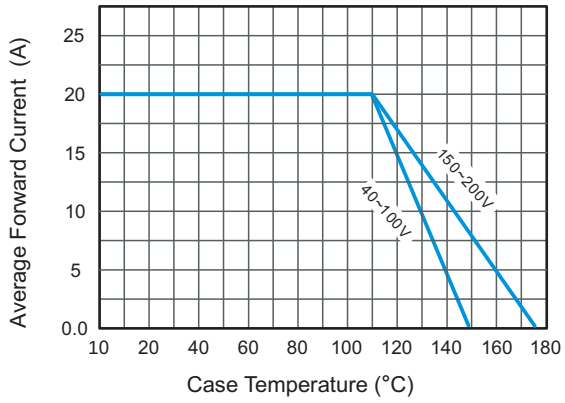


Fig.2 Typical Reverse Characteristics

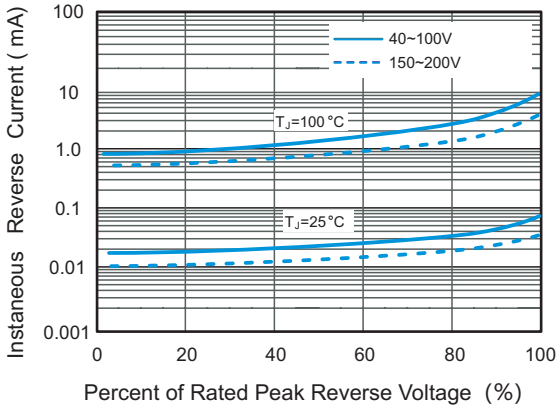


Fig.3 Typical Forward Characteristic(per leg)

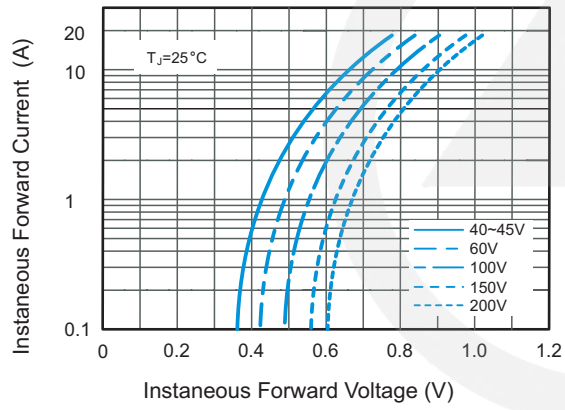


Fig.4 Typical Junction Capacitance

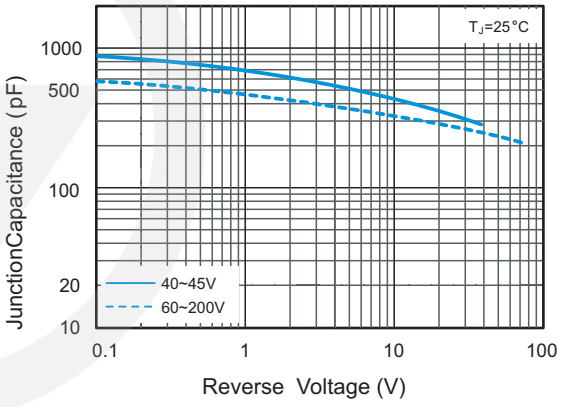


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

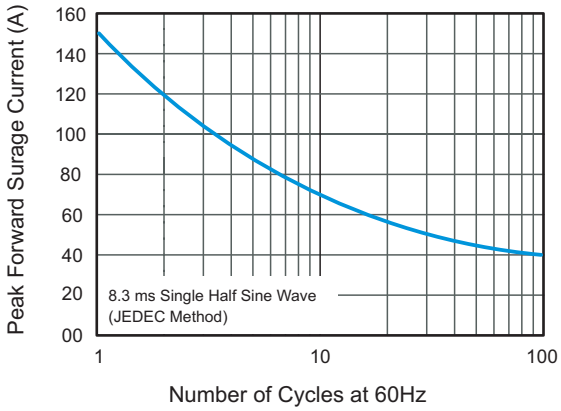
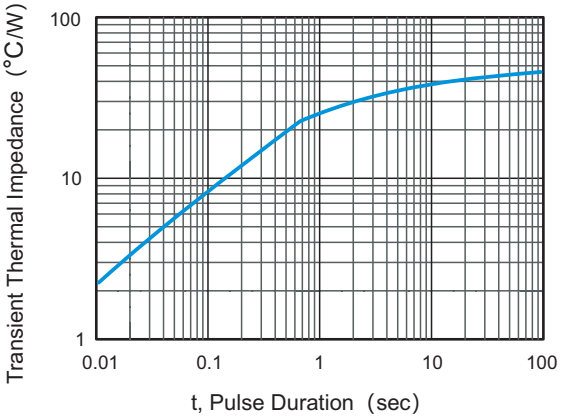
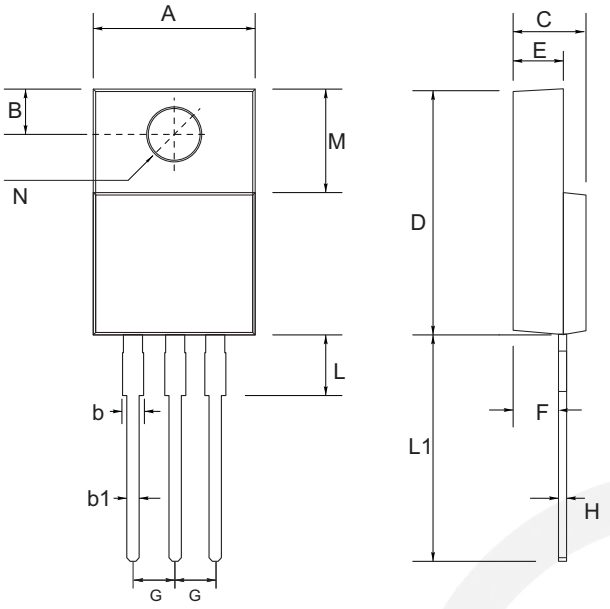


Fig.6 Typical Transient Thermal Impedance



ITO-220AB Package Outline



Symbol	Dimensions In Millimeters	
	Min.	Max.
A	9.70	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	2.40	2.90
F	2.50	3.60
G	2.54 TYP.	
H	0.41	0.70
L	2.30	4.10
L1	13.00	14.30
M	6.30	7.00
N	3.4 TYP.	

Type number	Marking code
LTM2040FT	MBR2040FT
LTM2045FT	MBR2045FT
LTM2060FT	MBR2060FT
LTM20100FT	MBR20100FT
LTM20150FT	MBR20150FT
LTM20200FT	MBR20200FT

Important Notice and Disclaimer

Leading-Tech reverses the right to make changes to this document and its products and specifications at any time without notice.

Customers should obtain and confirm the latest product information and specifications before final design,purchase or use.

Leading-Tech makes no warranty,representation or guarantee regarding the suitability of its products for any particular purpose,not does Leading-Tech assume any liability for application assistance or customer product design.

Leading-Tech does not warrant or accept any liability with products which are purchase or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of Leading-Tech.

Leading-Tech products are not authorized for use as critical components in life support devices or systems without express written approval of Leading-tech.

Version Update Information

Series NO.	Enactment/Revision Date	Effective Date	Version	Revision Content	Revision Reason	Revision Person	Note
01	2024.08.19	2024.08.19	3.0	New file	/	Ding	
02	2026.01.09	2026.01.09	3.1	Modify packaging size	/	Ding	