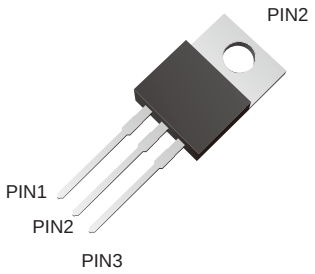
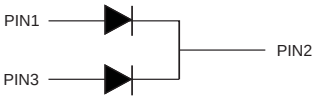
LTM1040CT THRU LTM10200CT

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



Mechanical data

- Case: TO-220AB
- Approx Weight: 1.87g (0.066oz)
- Lead free finish, RoHS compliant
- Case Material: “Green” molding compound, UL flammability classification 94V-0,“Halogen-free”.

Ordering Information

Part Number	Shipping	Packing Type
LTM1040CT THRU LTM10200CT	50PCS/Tube	Tube

Maximum Ratings and Electrical Characteristics

Ratings At 25℃ Ambient Temperature Unless Otherwise Specified

Characteristics	Symble	LTM1040CT	LTM1045CT	LTM1060CT	LTM10100CT	LTM10150CT	LTM10200CT	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	32	42	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	40	45	60	100	150	200	V
Maximum Average Forward per leg Rectified Current per device	$I_{F(AV)}$	5 10						A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) per leg	I_{FSM}	100						A
Max Instantaneous Forward Voltage at 5A(per leg)	V_F	0.70		0.75	0.85	0.90	0.92	V
Maximum DC Reverse Current T_J = 25°C at Rated DC Reverse Voltage T_J =125°C	I_R	0.1 20			0.05 20			mA
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JC}$	45 5						°C/W
Typical Junction Capacitance (f=1MHz,V_R=4V)	C_J	300		200				pF
Operating Junction Temperature Range	T_J	-55 ~ +150				-55 ~ +175		°C
Storage Temperature Range	T_{stg}	-55 ~ +150				-55 ~ +175		°C

Characteristics Curves

Fig.1 Typical Forward Current Derating Curve

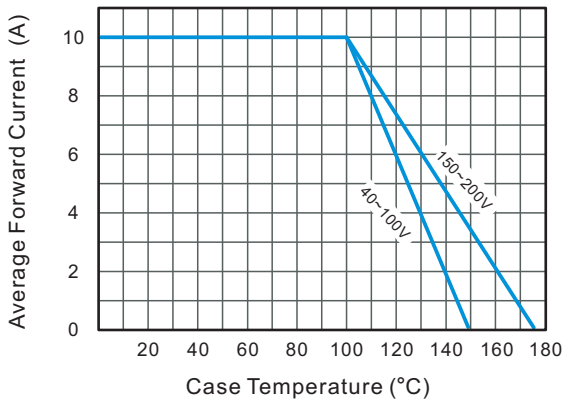


Fig.2 Typical Reverse Characteristics

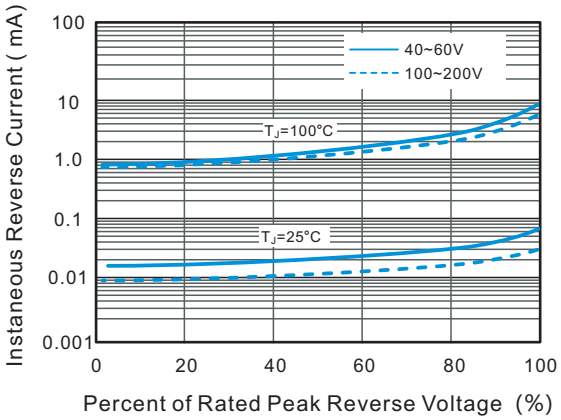


Fig.3 Typical Forward Characteristic(per leg)

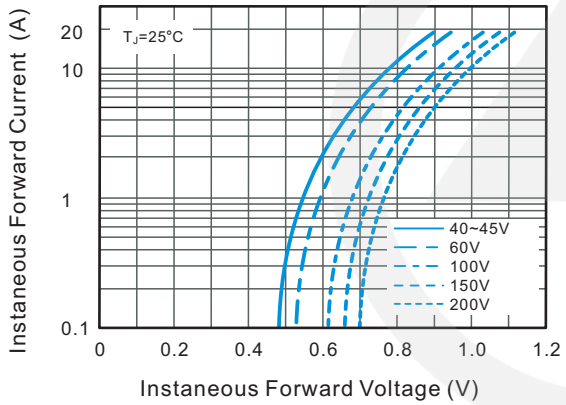


Fig.4 Typical Junction Capacitance

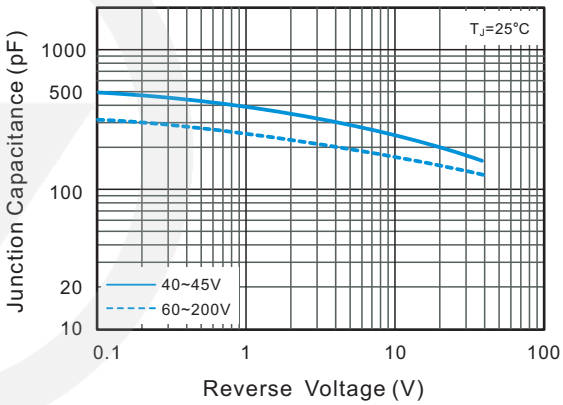


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

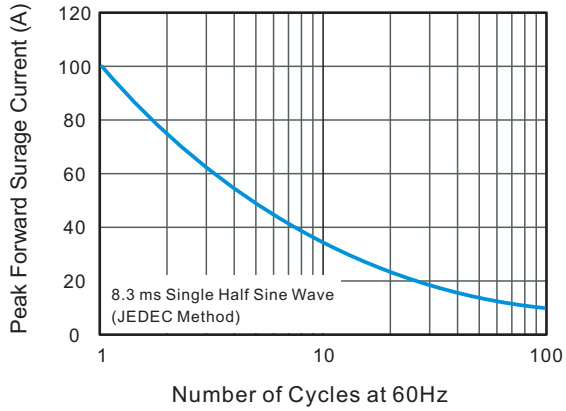
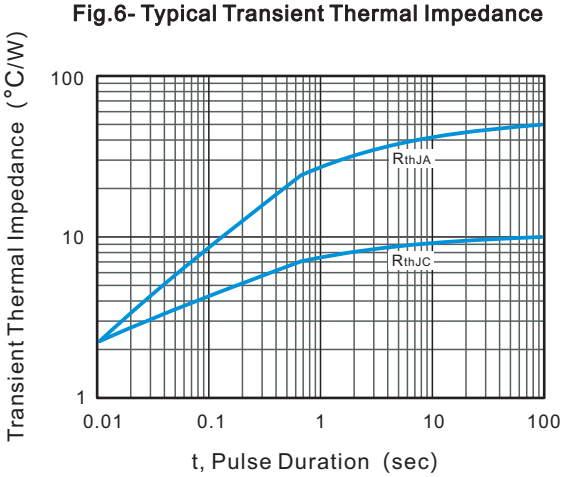
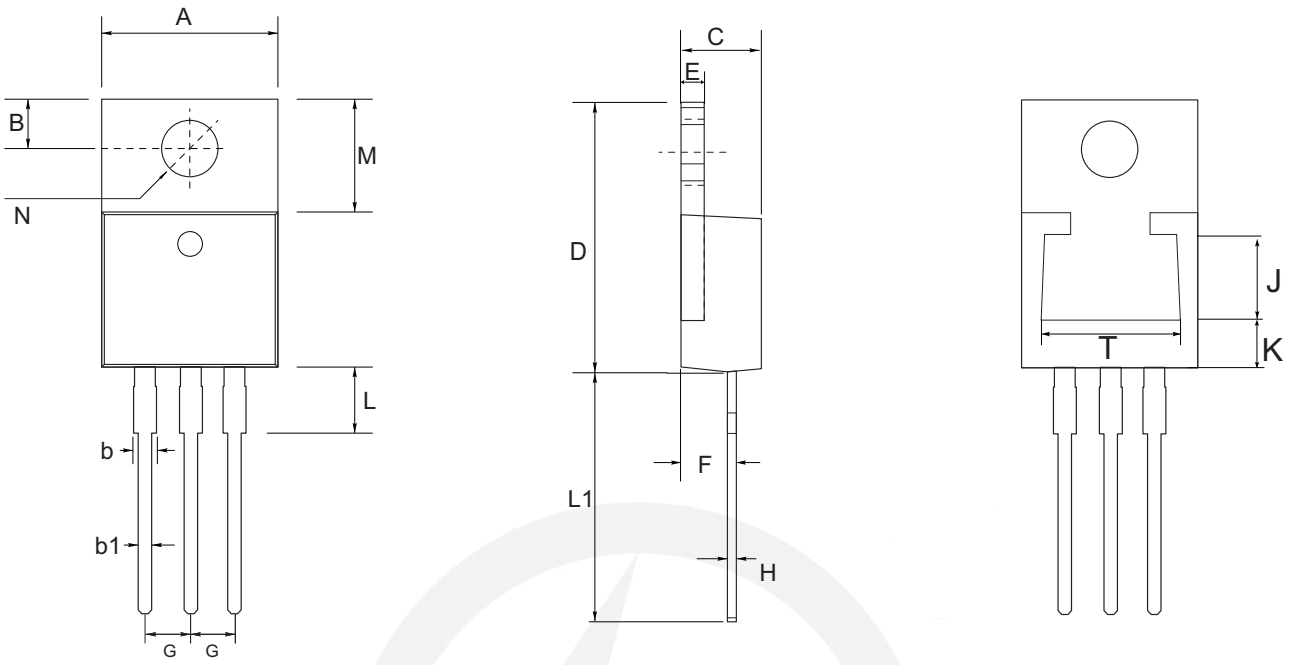


Fig.6- Typical Transient Thermal Impedance



TO-220AB Package Outline



Unit		A	B	b	b1	C	D	E	F	G	H	L	L1	M	N	J	T	K
mm	max	10.45	2.94	1.77	0.94	4.76	16.0	1.40	3.37	2.54 TYPICAL	0.64	4.2	14.79	6.6 TYPICAL	3.8 TYPICAL	4.65 Typ.	7.70 Typ.	3.22 Typ.
	min	9.85	2.54	1.14	0.62	4.42	14.6	1.14	2.77		0.35	2.8	13.08					

Marking

Type number	Marking code
LTM1040CT	MBR1040CT
LTM1045CT	MBR1045CT
LTM1060CT	MBR1060CT
LTM10100CT	MBR10100CT
LTM10150CT	MBR10150CT
LTM10200CT	MBR10200CT

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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	3.0	New File	/	Ding	