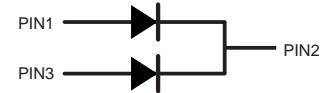
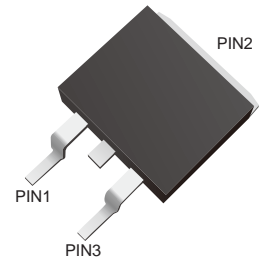


## Schottky Barrier Rectifiers

### 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



### Ordering Information

Part Number	Shipping	Reel
LTM2040GT THRU LTM20200GT-TR0.8K	800PCS Tape&Reel	13 inches

### Maximum Ratings and Electrical Characteristics ( Ta=25 unless otherwise noted )

Characteristics	Symbol	LTM2040GT	LTM2045GT	LTM2060GT	LTM20100GT	LTM20150GT	LTM20200GT	Units
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 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 10 A DC Per leg	$V_F$	0.70		0.75	0.85	0.90	0.92	V
Maximum DC Reverse Current at Rated DC Reverse Voltage $T_a = 25^{\circ}C$ $T_a = 125^{\circ}C$	$I_R$	0.1 20			0.05 20			mA
Typical Junction Capacitance <sup>(1)</sup>	$C_j$	600		400				pF
Typical Thermal Resistance <sup>(2)</sup>	$R_{\theta,JA}$	45						$^{\circ}C/W$
Operating Junction Temperature Range	$T_j$	-55 ~ +150				-55 ~ +175		$^{\circ}C$
Storage Temperature Range	$T_{stg}$	-55 ~ +150				-55 ~ +175		$^{\circ}C$

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) P.C.B. mounted with 10cmX10cmX1mm copper pad areas.



Characteristics Curves

Fig.1 Typical Forward Current Derating Curve

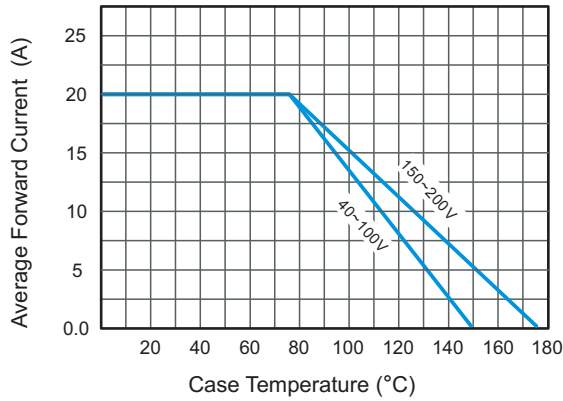


Fig.2 Typical Reverse Characteristics

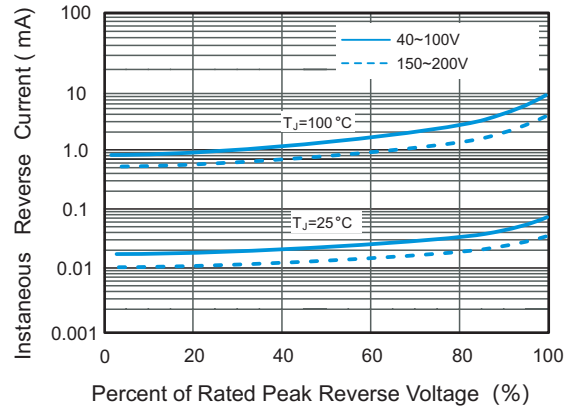


Fig.3 Typical Forward Characteristic(per leg)

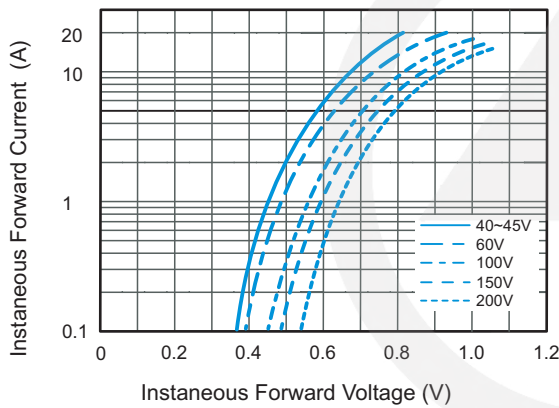


Fig.4 Typical Junction Capacitance

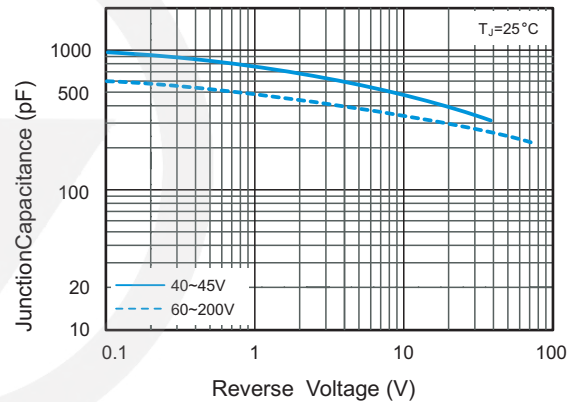


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

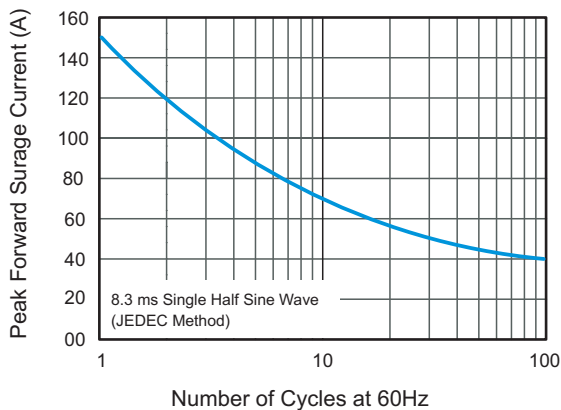
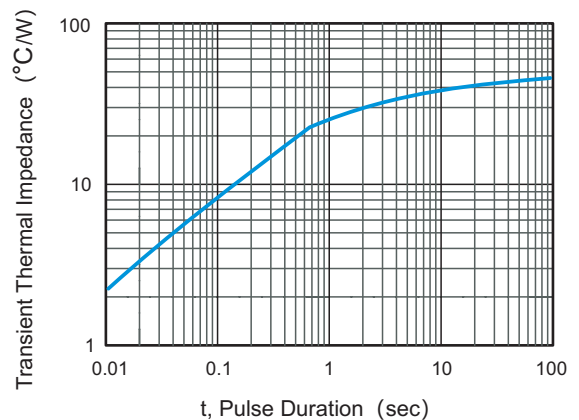
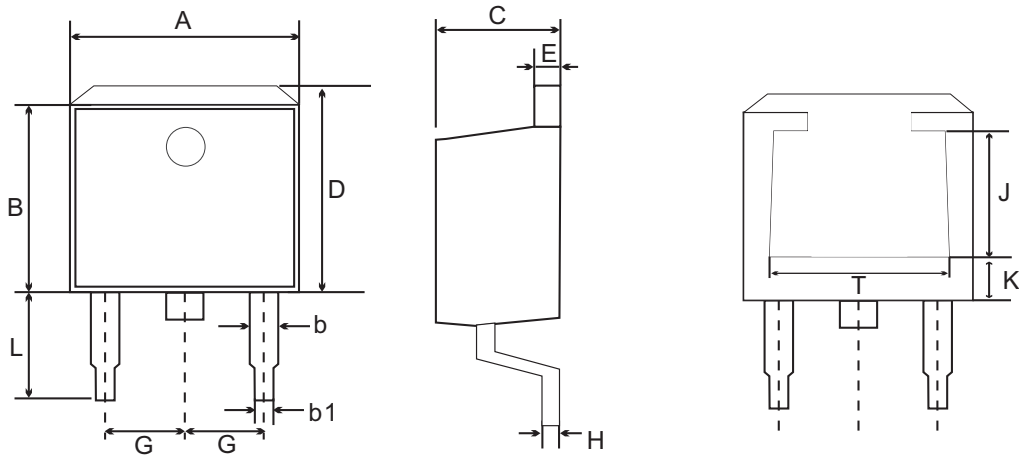


Fig.6 Typical Transient Thermal Impedance



## TO-263 Package Outline



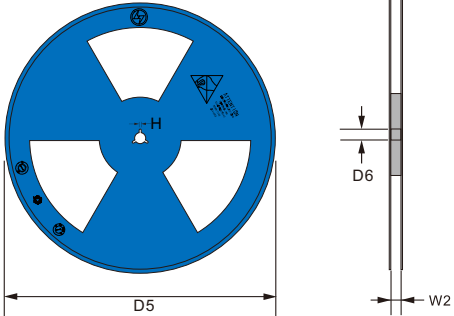
UNIT		A	B	b	b1	C	D	E	G	H	L	J	T	K
mm	max	10.4	9.1	1.5	0.91	4.8	10.6	1.40	2.75	0.7	6.0	4.65 ref.	7.70 ref.	3.22 ref.
	min	9.8	8.4	1.0		4.4	9.6	1.20	2.35	0.3	5.0			

### Marking

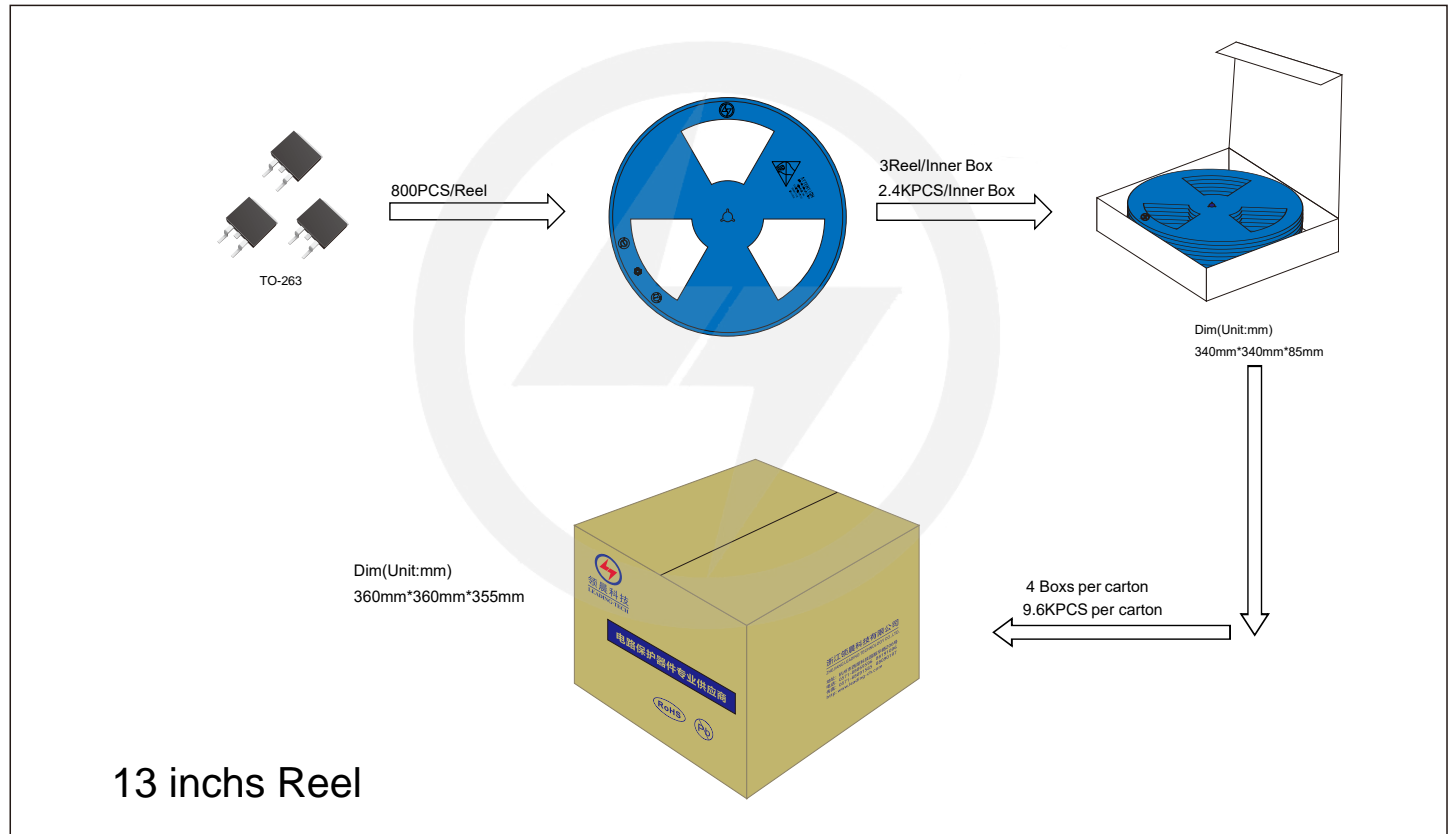
Type number	Marking code
LTM2040GT	MBR2040GT
LTM2045GT	MBR2045GT
LTM2060GT	MBR2060GT
LTM20100GT	MBR20100GT
LTM20150GT	MBR20150GT
LTM20200GT	MBR20200GT

## Reel Dimensions

Unit : mm

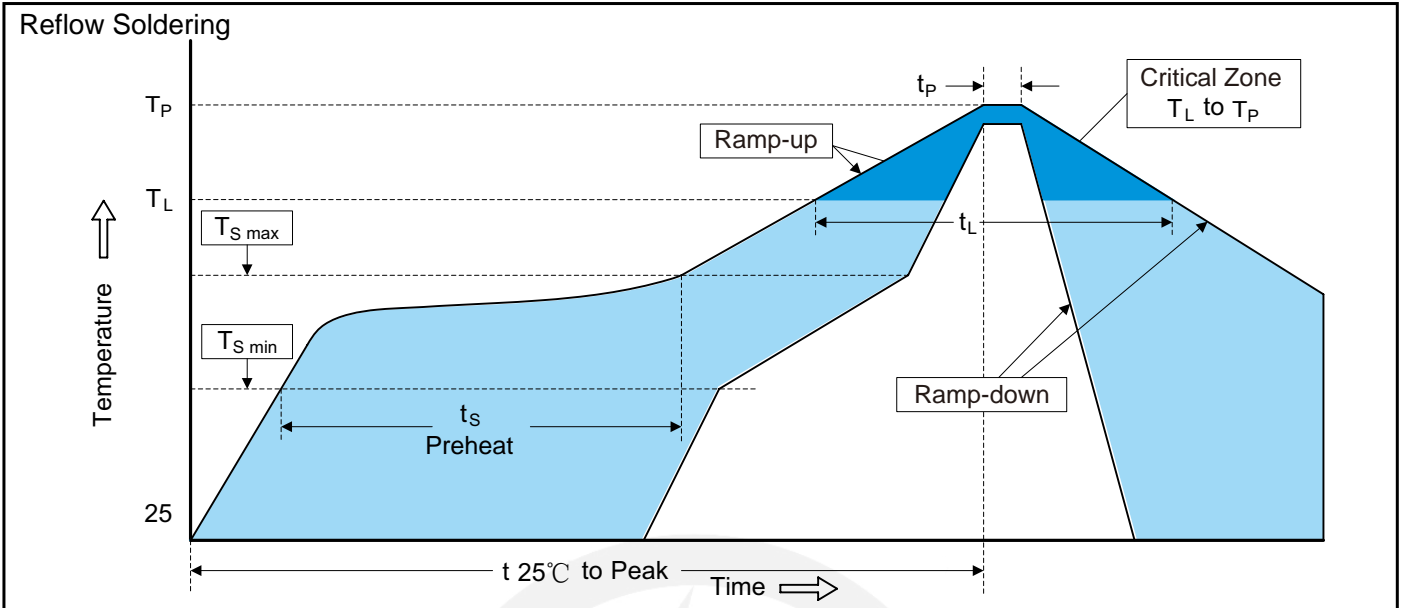
<p>13" Reel</p> 	D5	$\Phi 330.0 \pm 2.0$
	D6	$\Phi 13.5 \pm 0.5$
	H	$2.5 \pm 1.0$
	W2	$25.2 \pm 2.0$
	Quantity: 800PCS	

## Packaging





Recommended Soldering Conditions



Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate (T <sub>L</sub> to T <sub>P</sub> )	3°C/second max.
Preheat	
-Temperature Min (T <sub>S min</sub> )	150°C
-Temperature Max (T <sub>S max</sub> )	200°C
-Time (min to max) (t <sub>s</sub> )	60-180 seconds
T <sub>S max</sub> to T <sub>L</sub>	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
-Temperature (T <sub>L</sub> )	217°C
-Time (t <sub>L</sub> )	60-150 seconds
Peak Temperature (T <sub>P</sub> )	260°C
Time within 5°C of actual Peak Temperature (t <sub>p</sub> )	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

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## Version Update Information

Series NO.	Enactment/Revision Date	Effective Date	Version	Revision content	Revision Reason	Revision Person	Note
01	2024.12.26	2024.12.26	3.0	New File	/	Ding	