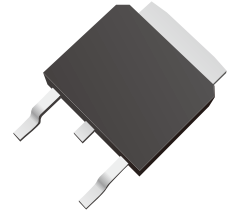


## Schottky Barrier Rectifier

Reverse Voltage - 40 to 200V

Forward Current - 5A

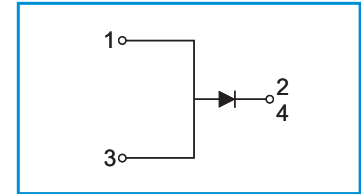


TO-252

### Features

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed
- Mounting position: any

Functional Diagram



### Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

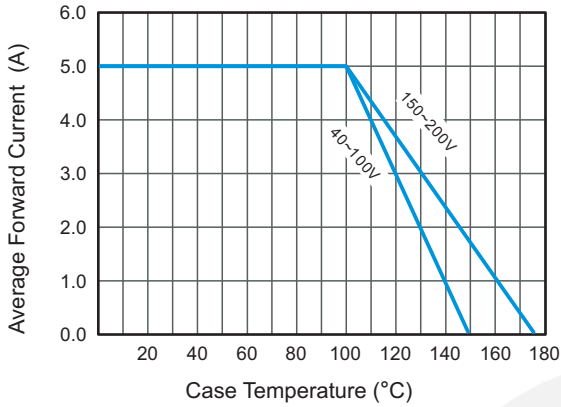
CHARACTERISTICS	TO-252	LTM540DP	LTM545DP	LTM560DP	LTM5100DP	LTM5150DP	LTM5200DP	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	45	60	100	150	200	V
Maximum RMS voltage	$V_{RMS}$	28	32	42	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	40	45	60	100	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	5.0						A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	120						A
Max Instantaneous Forward Voltage at 5 A	$V_F$	0.65		0.70	0.85	0.90	0.92	V
Maximum DC Reverse Current at Rated DC Reverse Voltage $T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$	$I_R$	0.1 20			0.05 20			mA
Typical Junction Capacitance <sup>(1)</sup>	$C_j$	600		400				pF
Typical Thermal Resistance <sup>(2)</sup>	$R_{\theta JA}$	35						°C/W
Operating Junction Temperature Range	$T_j$	-55 ~ +150				-55 ~ +175		°C
Storage Temperature Range	$T_{stg}$	-55 ~ +150				-55 ~ +175		°C

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

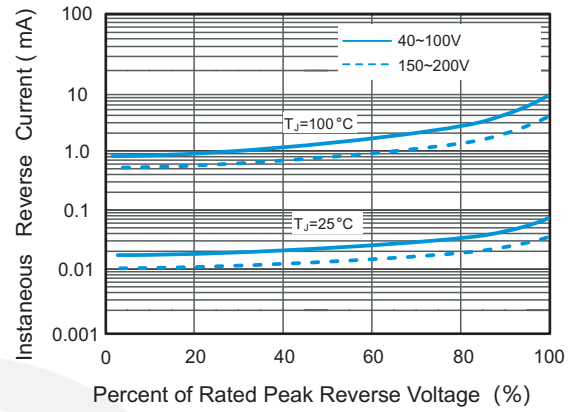
(2) P.C.B. mounted with 10cmX10cmX1mm copper pad areas.

**Ratings and characteristics Curves**

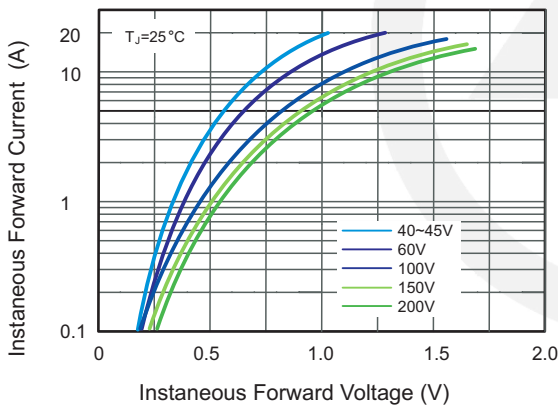
**Fig.1 TYPICAL FORWARD CURRENT DERATING CURVE**



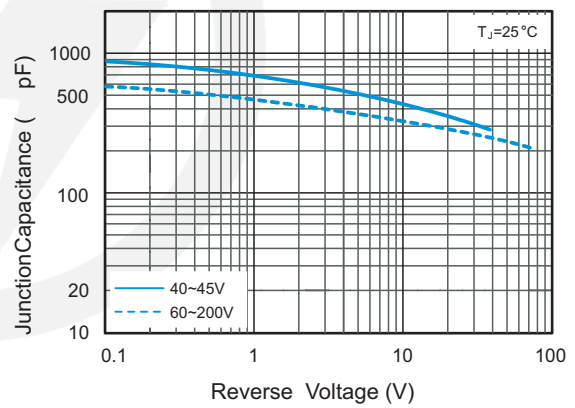
**Fig.2 Typical Reverse Characteristics**



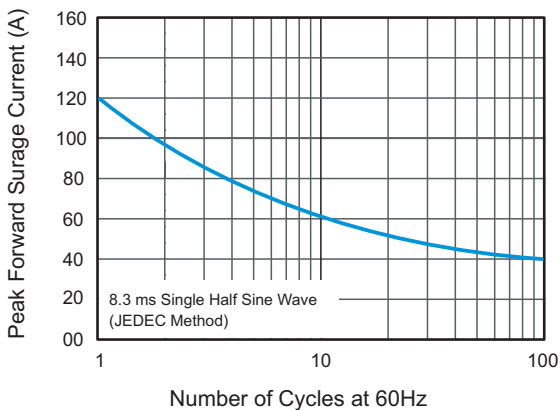
**Fig.3 Typical Forward Characteristic**



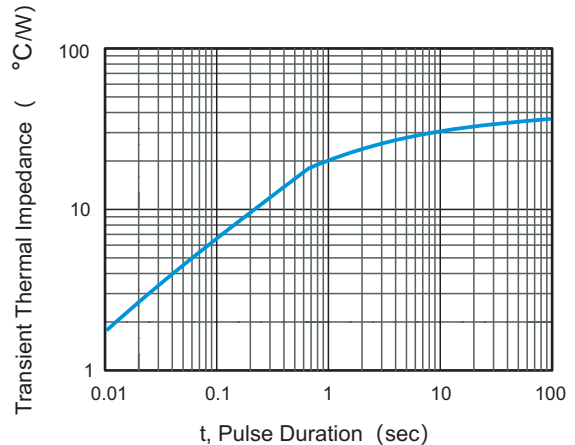
**Fig.4 Typical Junction Capacitance**



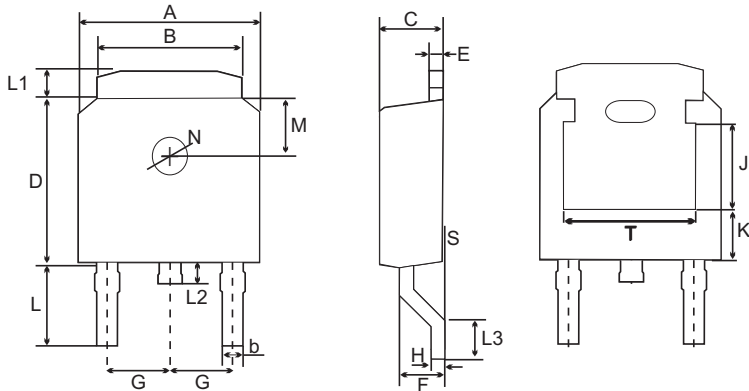
**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.6- Typical Transient Thermal Impedance**



## TO-252 Package Outline



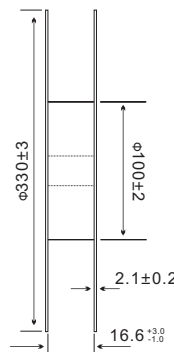
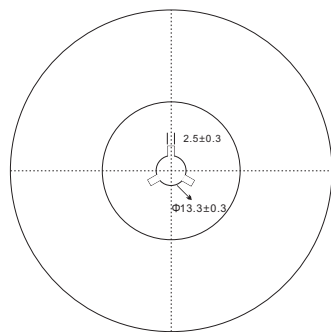
UNIT	A	B	b	C	D	E	F	G	H	L	L1	L2	L3	S	M	N	J	K	T	
mm	max	6.7	5.5	0.8	2.5	6.3	0.6	1.8		0.55	3.1	1.2	1.0	1.75	0.23					
	typ	6.6	5.3	0.7	2.3	6.1	0.5	1.5	2.29 TYPICAL	0.50	2.8	1.0	0.8	1.30	0.15	1.8 TYPICAL	1.3 TYPICAL	3.16 ref.	1.80 ref.	4.83 ref.
	min	6.3	5.1	0.3	2.1	5.9	0.4	1.3		0.45	2.7	0.8	0.6	1.00	0.0					

### Marking

Type number	Marking code
LTM540DP	MBR540DY
LTM545DP	MBR545DY
LTM560DP	MBR560DY
LTM5100DP	MBR5100DY
LTM5150DP	MBR5150DY
LTM5200DP	MBR5200DY

### Packaging

13" Reel



Quantity: 2500PCS