

LMBR0540LT1G-HW

S-LMBR0540LT1G-HW

Surface Mount Schottky Power Rectifier

1. FEATURES

- Guardring for Stress Protection
- Very Low Forward Voltage
- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.

2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LMBR0540LT1G-HW	B4	3000/Tape&Reel
LMBR0540LT3G-HW	B4	10000/Tape&Reel

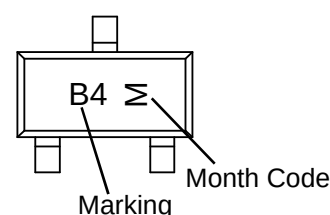
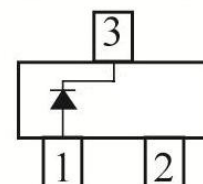
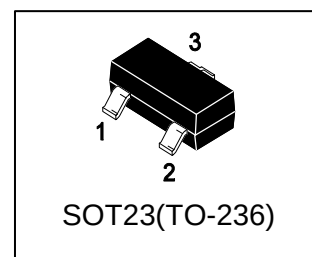
3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Peak Repetitive Reverse Voltage	VRRM	40	V
Working Peak Reverse Voltage	VRWM	40	V
DC Blocking Voltage	VR	40	V
Average Rectified Forward Current	IO	0.5	A
Peak Repetitive Forward Current (At Rated VR , Square Wave, 20 kHz, TC = 115°C)	IFRM	1	A
NonRepetitive Peak Surge Current(Surge Applied at Rated Load Conditions Halfwave,Single Phase, 60 Hz)	IFSM	5	A

4. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	300 3	mW mW/°C
Thermal Resistance, Junction-to-Ambient(Note 1)	RθJA	300	°C/W
Thermal Resistance, Junction-to-Case	RθJC	150	°C/W
Junction and Storage temperature	TJ,Tstg	-40~+125	°C

1. 30.0mm×25.0mm×1.6mm(FR4)

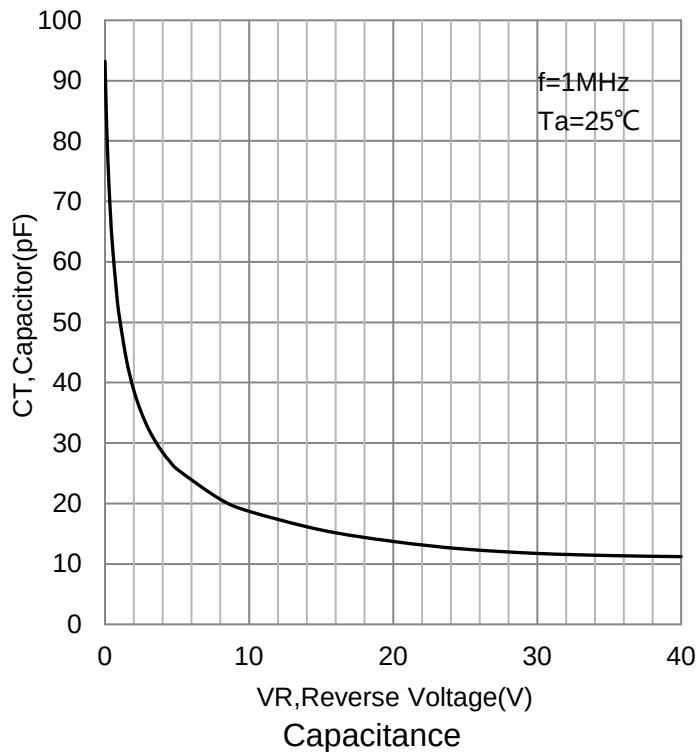
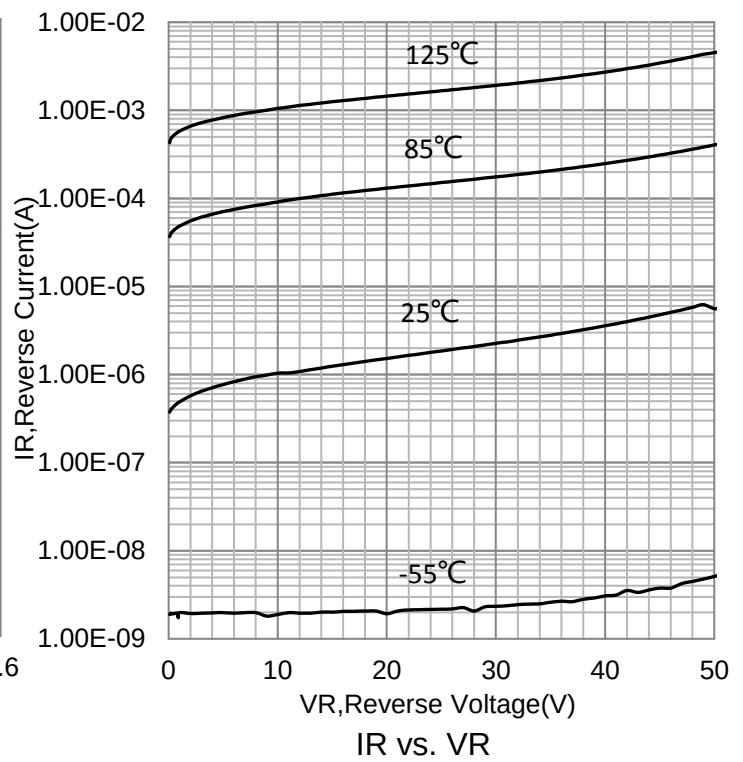
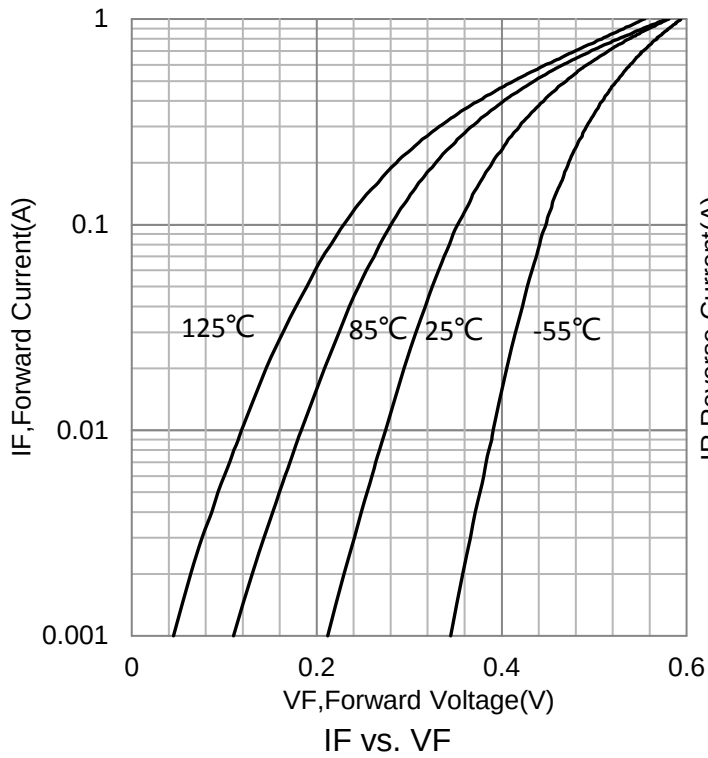


5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

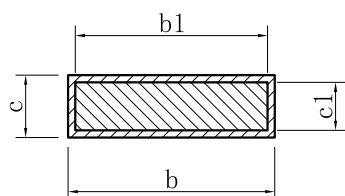
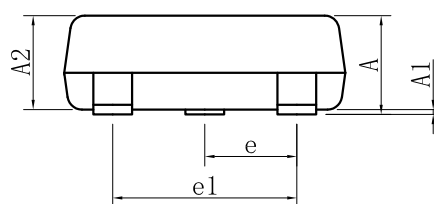
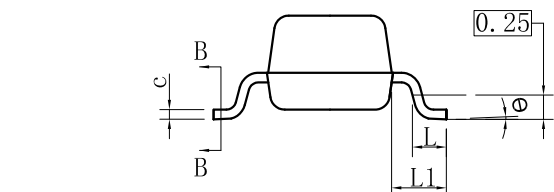
Characteristic	Symbol	Min	Typ	Max	Unit
Maximum Instantaneous Forward Voltage (Note 1) (IF = 0.5 A)	VF	-	-	0.55	V
(IF = 1 A)		-	-	0.65	
Maximum Instantaneous Reverse Current (Note 1) (VR = 40 V)	IR	-	-	20	μA
(VR = 20 V)		-	-	10	

1. Pulse Test: Pulse Width $\leq 250 \mu\text{s}$, Duty Cycle $\leq 2.0\%$.

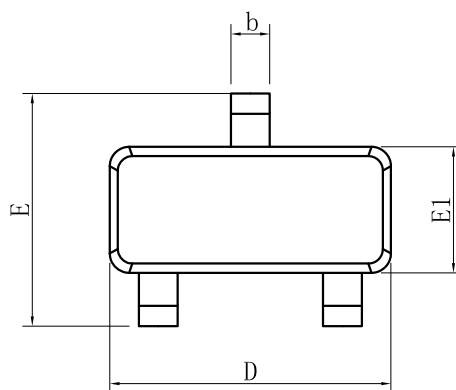
6.ELECTRICAL CHARACTERISTICS CURVES



7.OUTLINE AND DIMENSIONS



SECTION B-B

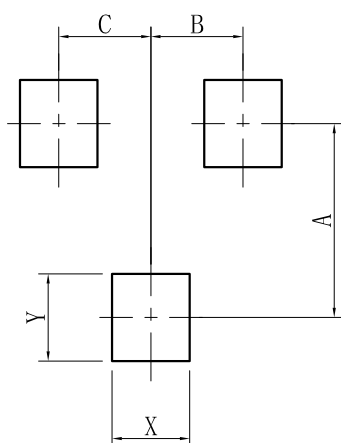


SOT23			
DIM	MIN	NOR	MAX
A	0.89	-	1.12
A1	0.01	-	0.10
A2	0.88	0.95	1.02
b	0.30	-	0.50
b1	0.30	0.40	0.45
c	0.08	-	0.20
c1	0.08	0.10	0.16
D	2.80	2.90	3.04
E	2.10	-	2.64
E1	1.20	1.30	1.40
e	0.95BSC		
e1	1.90BSC		
L	0.40	0.46	0.60
L1	0.54REF		
θ	0°	-	8°
All Dimensions in mm			

GENERAL NOTES

- 1.Top package surface finish $Ra0.4\pm0.2\mu m$
- 2.Bottom package surface finish $Ra0.7\pm0.2\mu m$
- 3.Side package surface finish $Ra0.4\pm0.2\mu m$

8.SOLDERING FOOTPRINT



SOT-23	
DIM	(mm)
X	0.80
Y	0.90
A	2.00
B	0.95
C	0.95

DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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