

LMBR0540LT1G

S-LMBR0540LT1G

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	B4	3000/Tape&Reel
LMBR0540LT3G	B4	10000/Tape&Reel

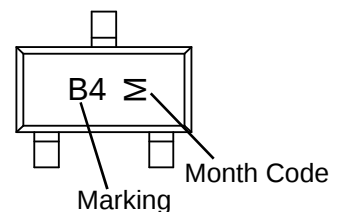
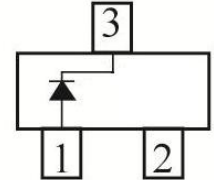
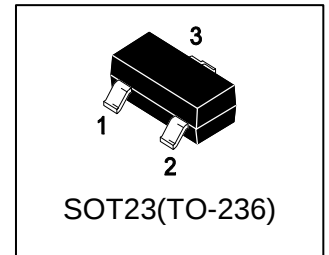
3. MAXIMUM RATINGS(Ta = 25°C)

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
Storage Temperature Range	TSTG	-40 ~ +125	°C
Junction Temperature	TJ	125	°C

4. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	200 2	mW mW/°C
Thermal Resistance, Junction-to-Ambient(Note 1)	RθJA	500	°C/W
Thermal Resistance, Junction-to-Case	RθJC	200	°C/W

1. FR-5 = 1.0×0.75×0.062 in.

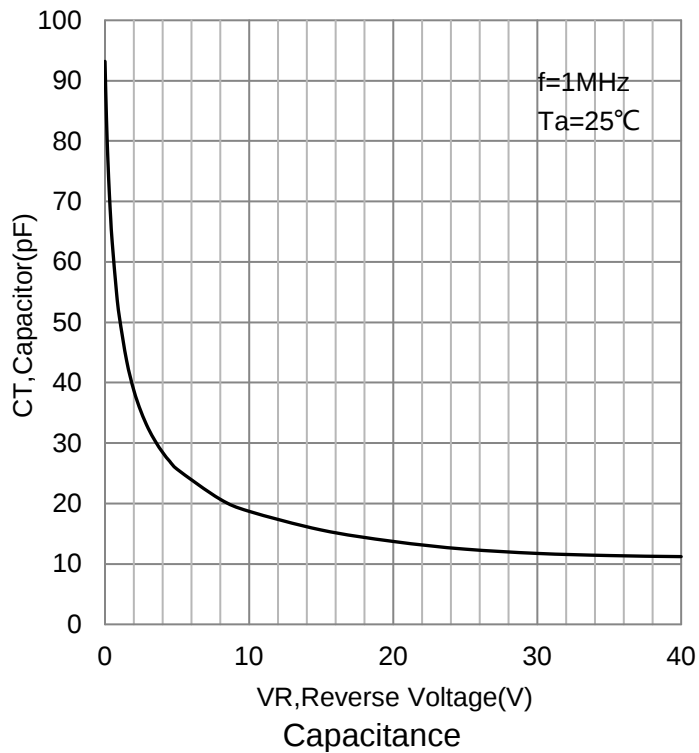
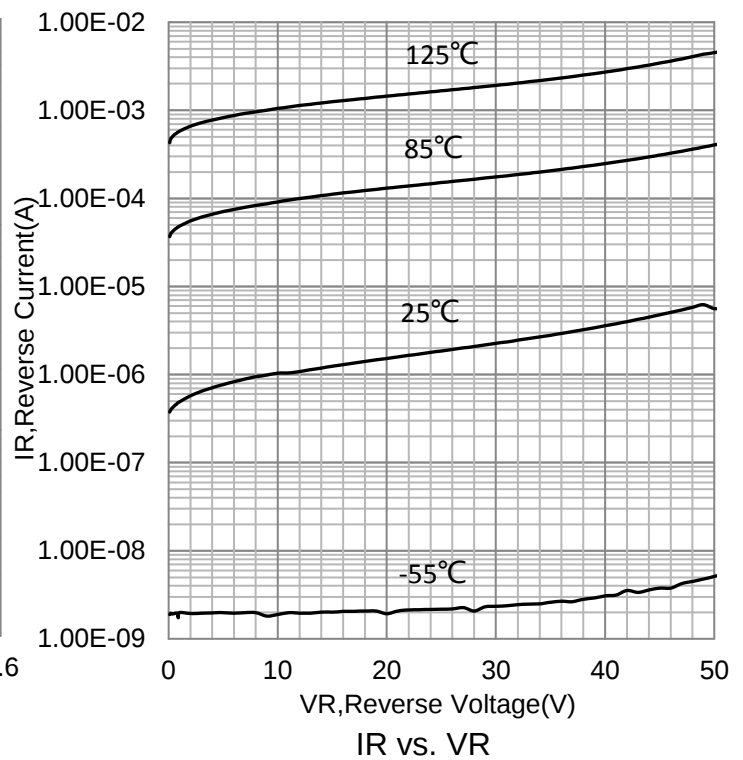
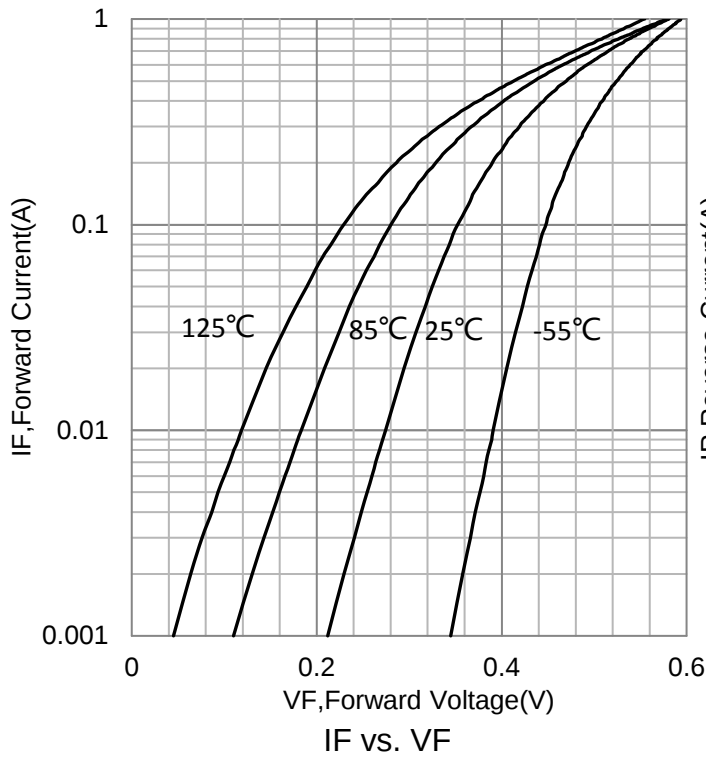


5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

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 $\leq 2.0\%$.

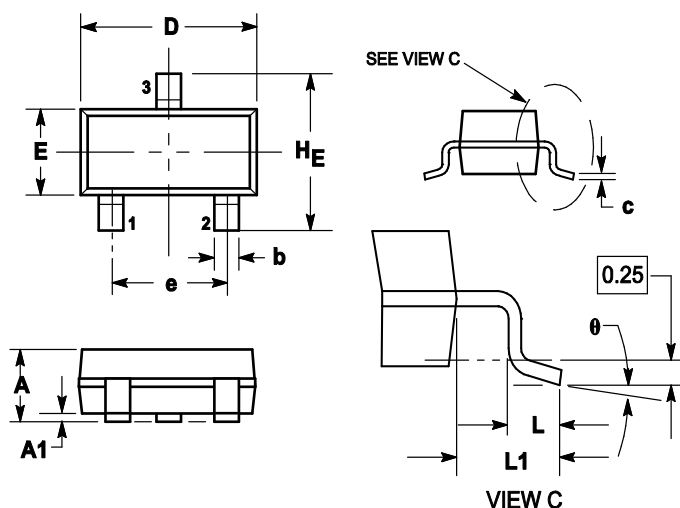
6.ELECTRICAL CHARACTERISTICS CURVES



7.OUTLINE AND DIMENSIONS

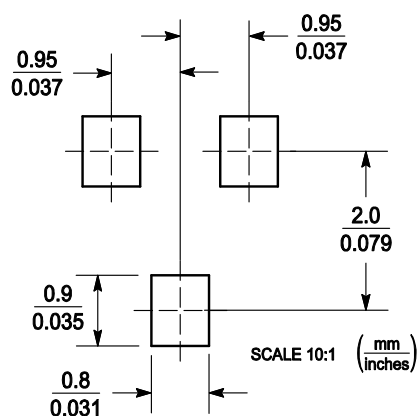
Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.89	1	1.11	0.035	0.04	0.044
A1	0.01	0.06	0.1	0.001	0.002	0.004
b	0.37	0.44	0.5	0.015	0.018	0.02
c	0.09	0.13	0.18	0.003	0.005	0.007
D	2.80	2.9	3.04	0.11	0.114	0.12
E	1.20	1.3	1.4	0.047	0.051	0.055
e	1.78	1.9	2.04	0.07	0.075	0.081
L	0.10	0.2	0.3	0.004	0.008	0.012
L1	0.35	0.54	0.69	0.014	0.021	0.029
H _E	2.10	2.4	2.64	0.083	0.094	0.104
θ	0°	---	10°	0°	---	10°

8.SOLDERING FOOTPRINT



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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单击下面可查看定价，库存，交付和生命周期等信息

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