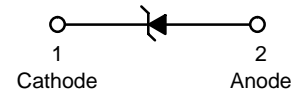
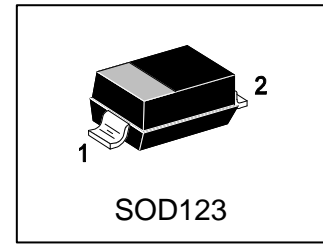


# LMBR140T1G

## S-LMBR140T1G

Surface Mount Schottky Power Rectifier



### 1. FEATURES

- Small power mold type.
- Low IR
- High reliability.
- Silicon epitaxial planar
- 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
LMBR140T1G	S7	3000/Tape&Reel
LMBR140T3G	S7	10000/Tape&Reel

### 3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	VRM	40	V
Reverse voltage (DC)	VR	40	V
Average rectified forward current	IO	1	A
Forward current surge peak (60Hz · 1cyc)	IFSM	5.5	A
Junction temperature	TJ	-55 ~ +150	°C
Storage temperature range	TSTG	-55 ~ +150	°C

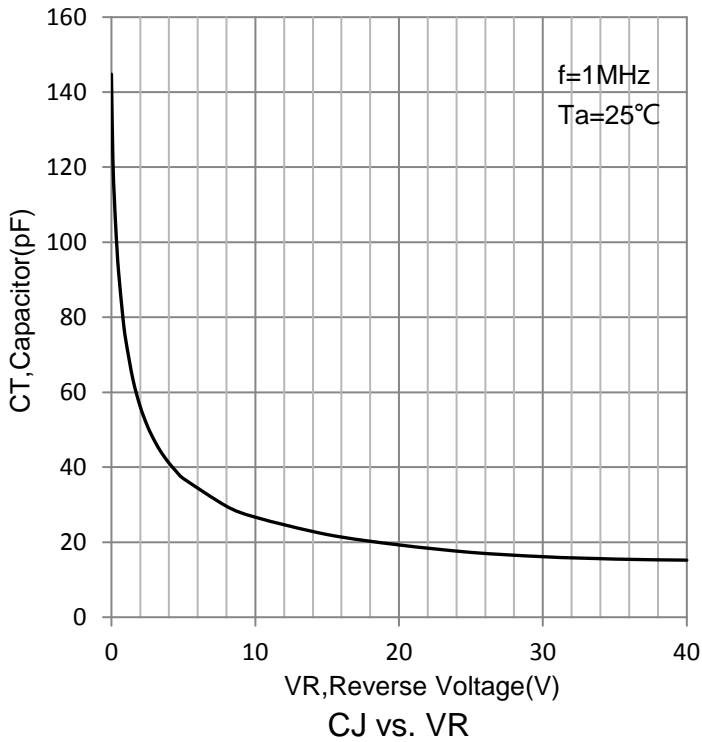
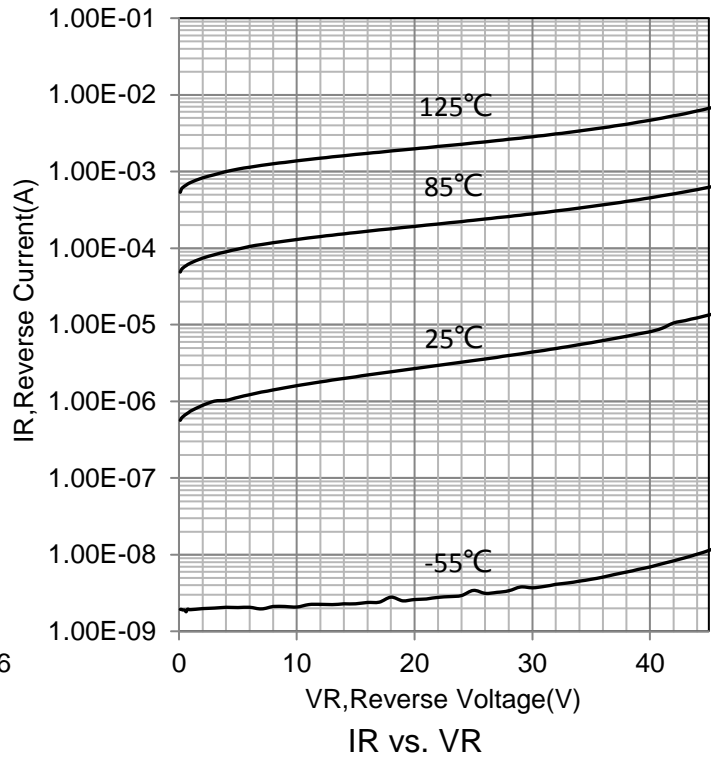
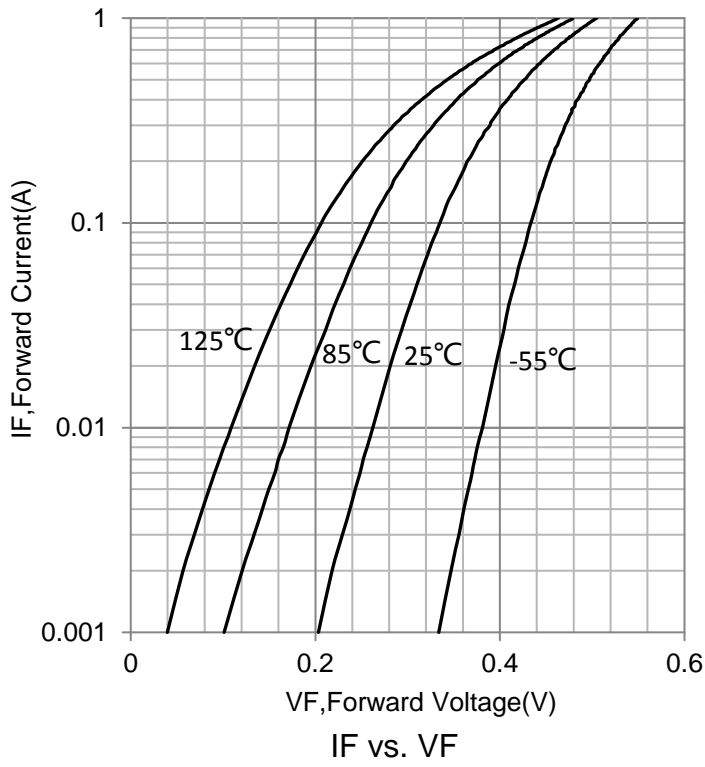
### 4. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Power Dissipation	PD	400	mW
Thermal Resistance,Junction-to-Ambient	RθJA	312	°C/W
Thermal Resistance,Junction-to-Case	RθJC	150	°C/W

### 5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min	Typ.	Max	Unit
Forward voltage (IF = 1.0 A)	VF	-	0.54	0.56	V
Reverse current (VR=40V)	IR	-	4	30	μA

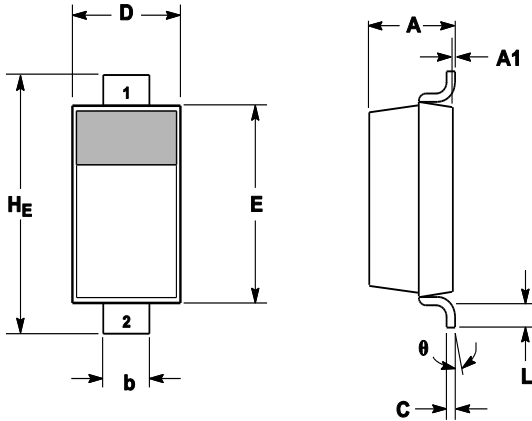
### 6.ELECTRICAL CHARACTERISTICS CURVES



## 7. OUTLINE AND DIMENSIONS

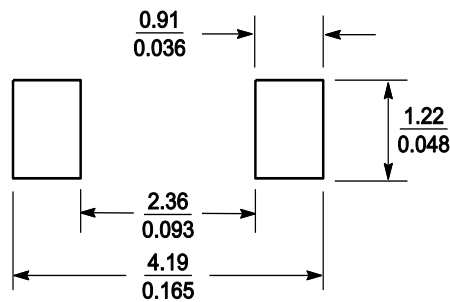
Notes:

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	0.94	1.17	1.35	0.037	0.046	0.053
A1	0.00	0.05	0.10	0.000	0.002	0.004
b	0.51	0.61	0.71	0.020	0.024	0.028
c	---	---	0.15	---	---	0.006
D	1.40	1.60	1.80	0.055	0.063	0.071
E	2.54	2.69	2.84	0.100	0.106	0.112
H <sub>E</sub>	3.56	3.68	3.86	0.140	0.145	0.152
L	0.25	---	---	0.010	---	---
θ	0°	---	10°	0°	---	10°

## 8. SOLDERING FOOTPRINT



SCALE 10:1 (  $\frac{\text{mm}}{\text{inches}}$  )

## **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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