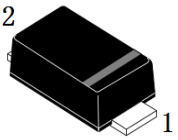
LMBR0540FT1G
S-LMBR0540FT1G

Schottky Barrier Rectifiers

1. FEATURES

- Low power losses, high efficiency.
- Guardring for over voltage protection.
- For use in low voltage high frequency inverters, free wheeling,and polarity protection applications
- 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.



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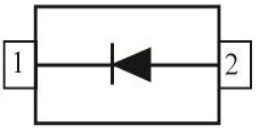


2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LMBR0540FT1G	054	3000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25ºC)

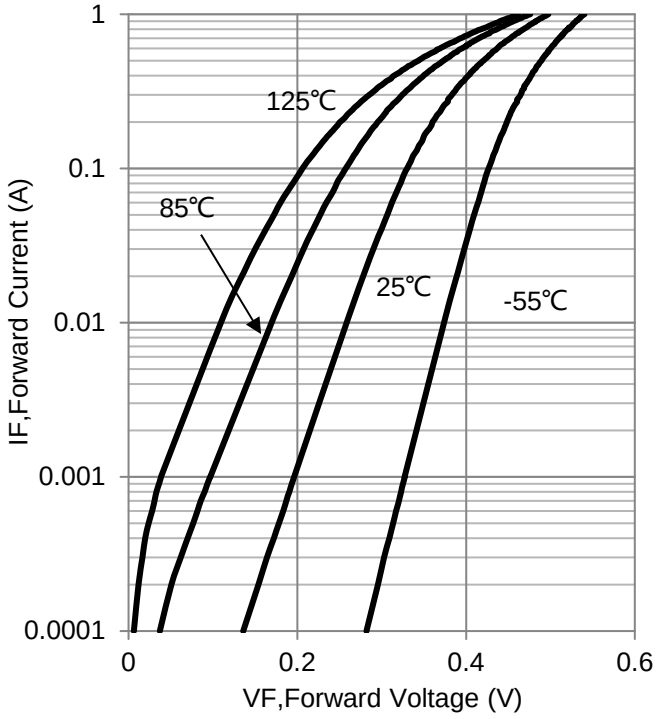
Parameter	Symbol	Limits	Unit
Maximum repetitive peak reverse voltage	VRRM	40	V
Maximum RMS voltage	VRMS	28	V
Maximum DC blocking voltage	VDC	40	V
Maximum average forward rectified current at TC = 75°C	IF(AV)	0.5	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30	A
Typical thermal resistance (Note 1)	RθJA	85	℃/W
Operating junction temperature range	TJ	–55 ~ +150	℃
storage temperature range	TSTG	–65 ~ +175	℃

Note: 1. 8.0mm² (.013mm thick) land areas

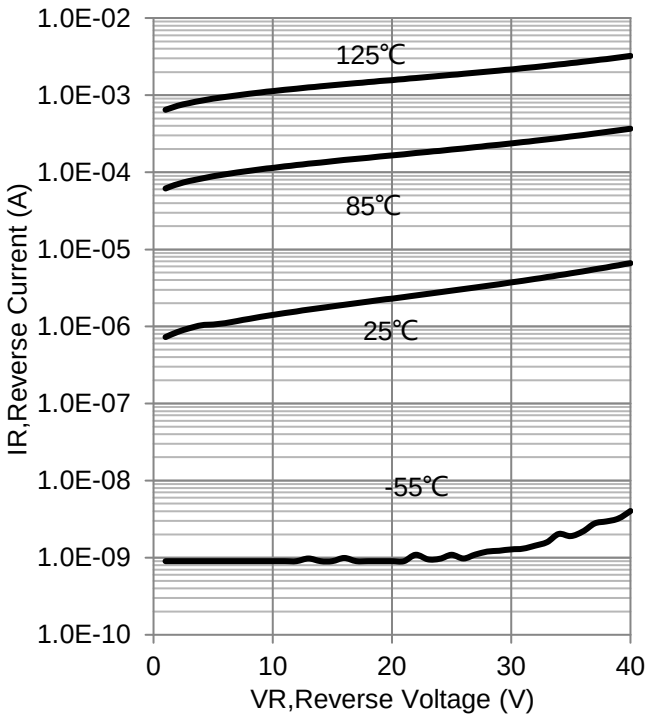
4. ELECTRICAL CHARACTERISTICS (Ta= 25ºC)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Maximum instantaneous forward voltage (IF = 0.5 A, TJ = 25°C)	VF	-	-	0.55	V
Maximum DC reverse current at rated DC blocking Voltage TA = 25 ℃	IR	-	-	0.04	mA
Tj = 100 ℃		-	-	10	
Typical junction capacitance at 4.0V, 1MHz	CJ	-	40	-	PF

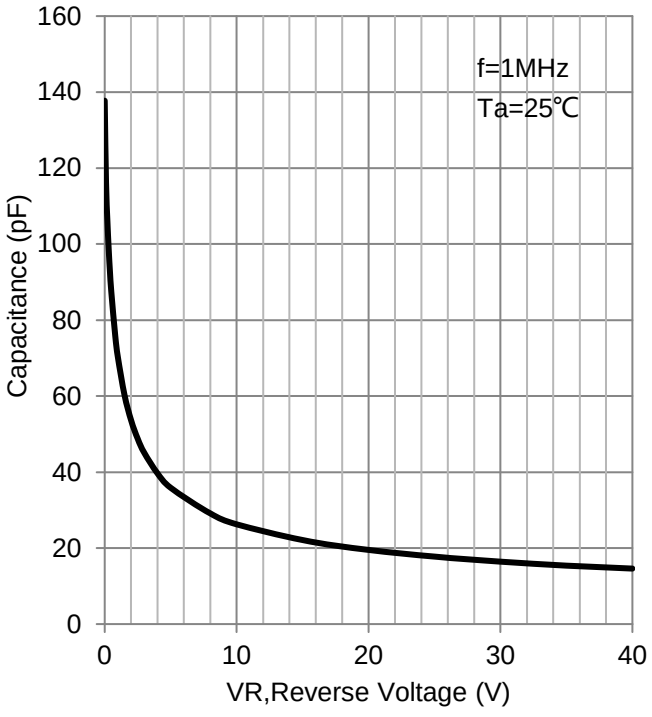
5. ELECTRICAL CHARACTERISTICS CURVES



IF vs. VF

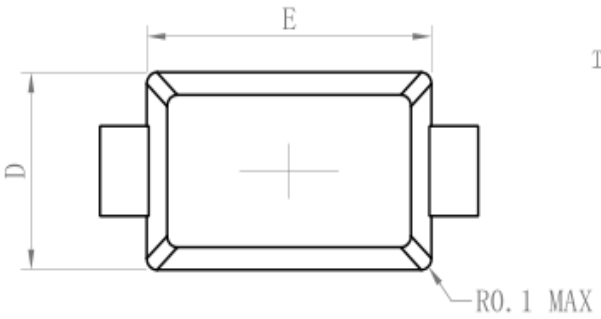


IR vs. VR

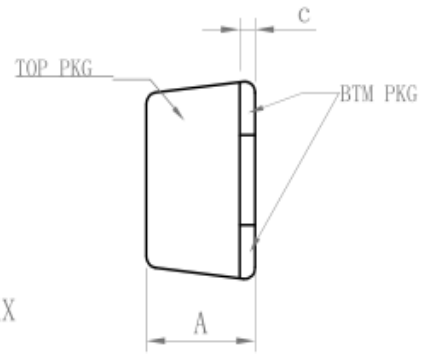


Capacitance

6.OUTLINE AND DIMENSIONS

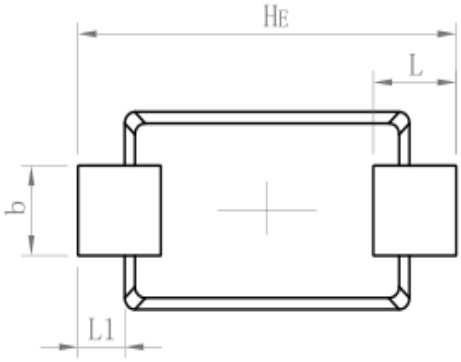


TOP VIEW



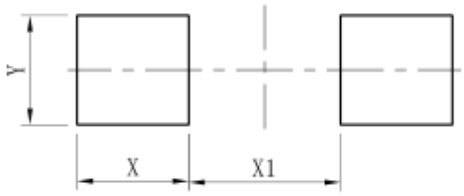
SIDE VIEW

SOD123FL			
DIM	MIN	NOR	MAX
A	0.90	1.05	1.15
b	0.75	0.80	0.95
L		0.80REF	
E	2.60	2.75	2.90
D	1.60	1.75	1.90
HE	3.50	3.65	3.80
c	0.12	0.17	0.22
L1		0.45REF	
All Dimensions in mm			



BOTTOM VIEW

7.SOLDERING FOOTPRINT



DIM	(mm)
X	1.20
Y	1.10
X1	2.00