

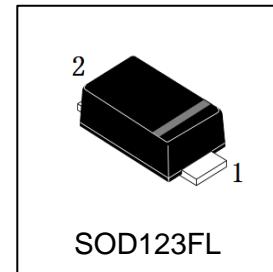
LMBR130FT1G

S-LMBR130FT1G

Schottky Barrier Diode

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.



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LMBR130FT1G	13	3000/Tape&Reel
S-LMBR130FT1G	13	3000/Tape&Reel

3. MAXIMUM RATINGS(T_a = 25°C)

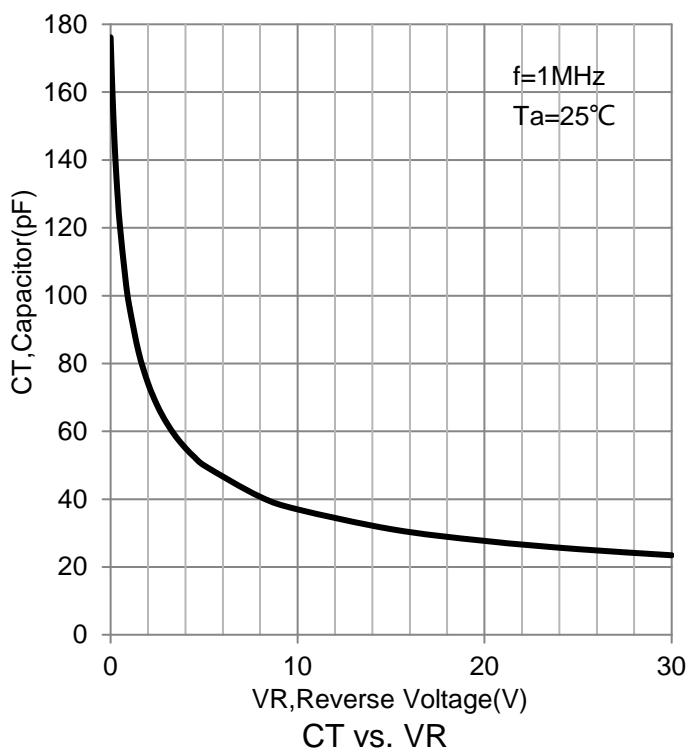
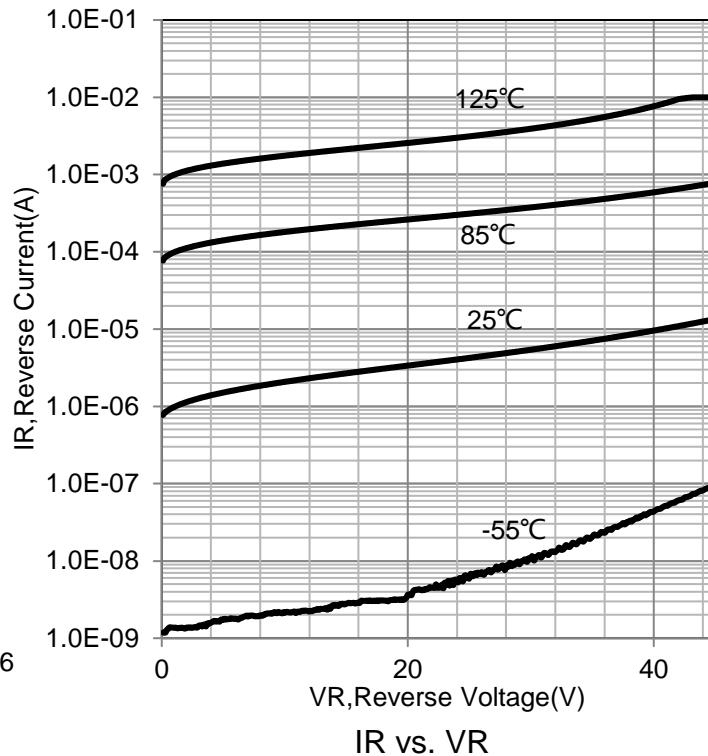
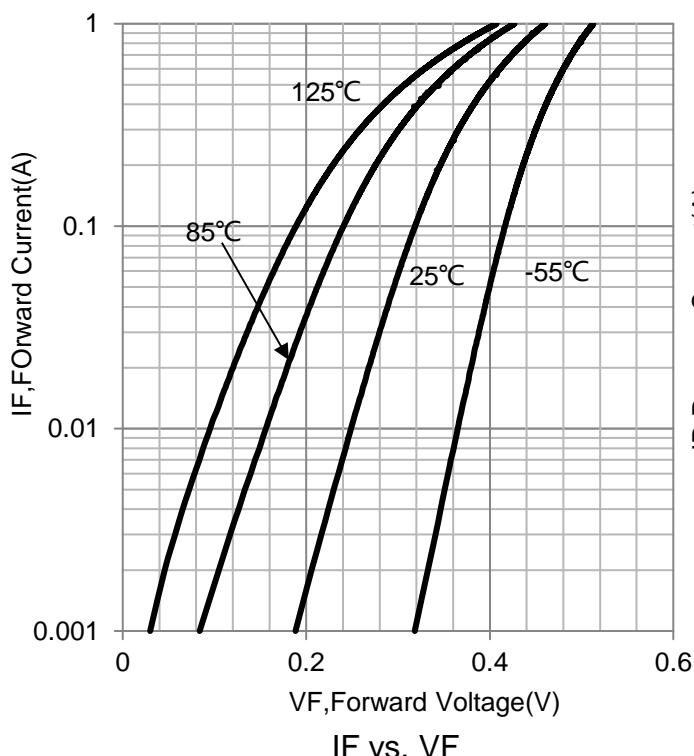
Parameter	Symbol	Limits	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	30	V
Maximum RMS voltage	V _{RMS}	21	V
Maximum DC blocking voltage	V _{DC}	30	V
Maximum average forward rectified current at T _C = 75°C	I _{F(AV)}	1	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30	A
Typical thermal resistance (Note 1)	R _{θJA}	170	°C/W
	R _{θJL}	40	
Operating junction temperature range	T _J	-55 ~ +150	°C
storage temperature range	T _{STG}	-65 ~ +175	°C

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

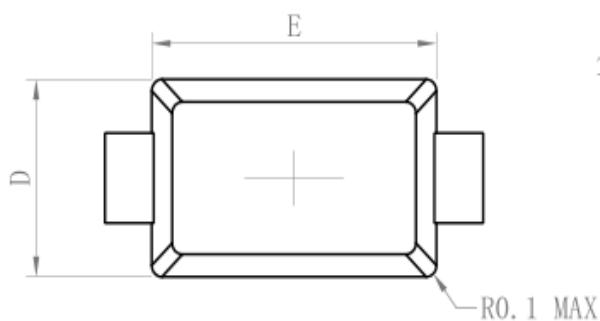
Characteristic	Symbol	Min	Typ.	Max	Unit
Maximum instantaneous forward (IF = 0.1 A, TJ = 25°C) (IF = 0.7 A, TJ = 25°C) (IF = 1.0 A, TJ = 25°C)	VF	-	-	0.35	V
		-	-	0.45	
		-	-	0.5	
Maximum repetitive peak reverse voltage (IR=500μA)	VR	30	-	-	mA
Maximum DC reverse current at rated DC blocking voltage TA = 25°C Tj = 125°C		-	-	0.5	
		-	-	10	
Junction capacitance at 4.0V, 1MHz	CJ	-	120	-	pF
Junction capacitance at 2.0V, 1MHz		-	160	-	

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

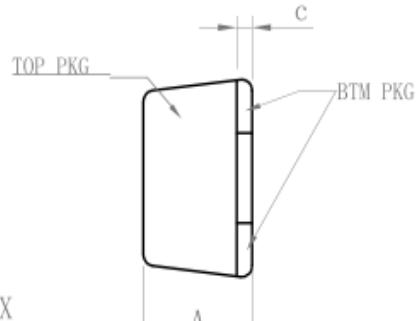
5.ELECTRICAL CHARACTERISTICS CURVES



6.OUTLINE AND DIMENSIONS

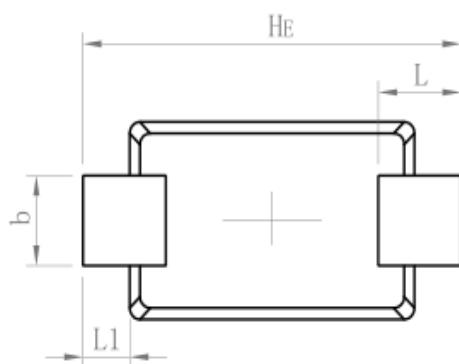


TOP VIEW



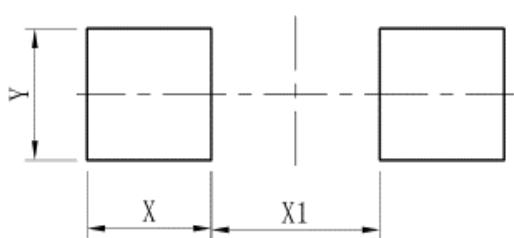
SIDE VIEW

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