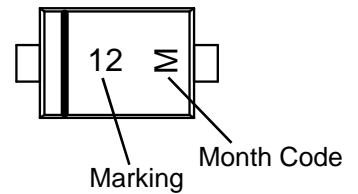
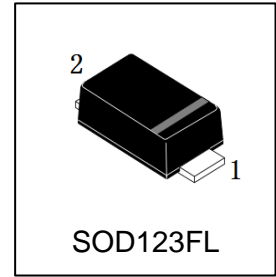


LMBR120FT1G

S-LMBR120FT1G

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
LMBR120FT1G	12	3000/Tape&Reel
S-LMBR120FT1G	12	3000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

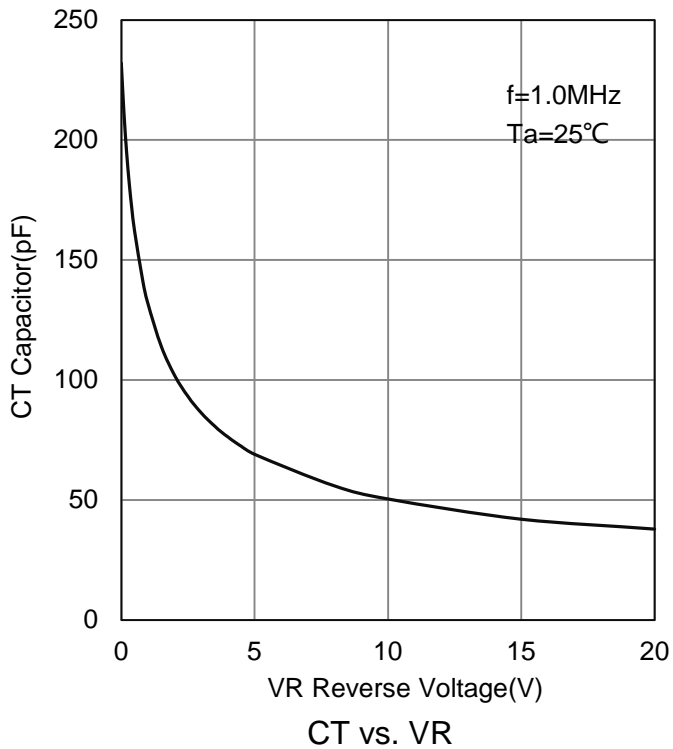
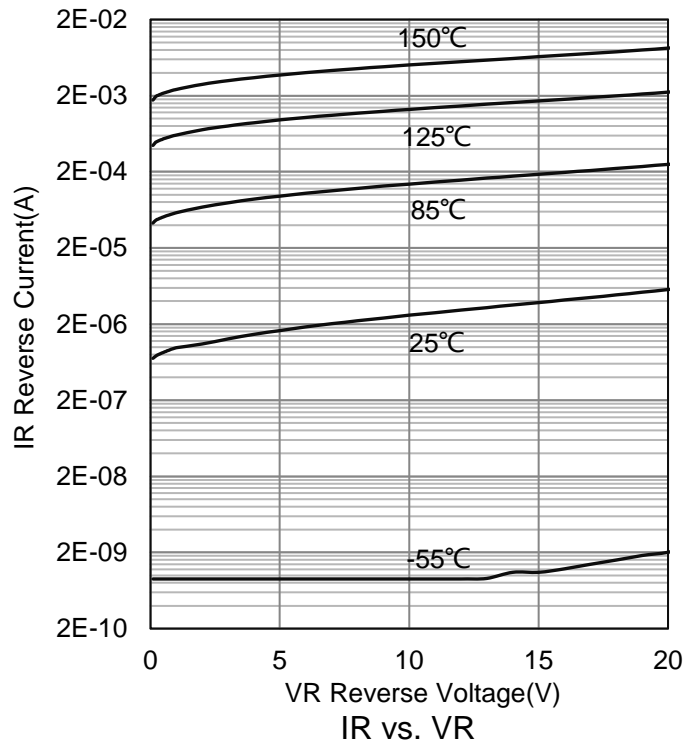
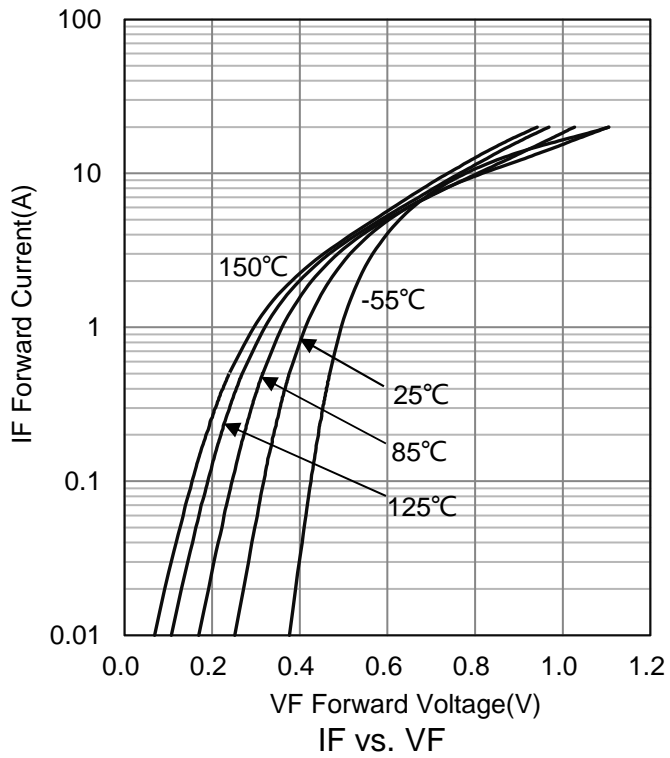
Parameter	Symbol	Limits	Unit
Maximum repetitive peak reverse voltage	VRRM	20	V
Maximum RMS voltage	VRMS	14	V
Maximum DC blocking voltage	VDC	20	V
Maximum average forward rectified current at TJ = 95°C	IF(AV)	1	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30	A
Power Dissipation	PD	400	mW
Typical thermal resistance (Note 1)	RθJA	170	°C/W
	RθJL	40	
Operating junction temperature range	TJ	-55 ~ +150	°C
storage temperature range	TSTG	-65 ~ +175	°C

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

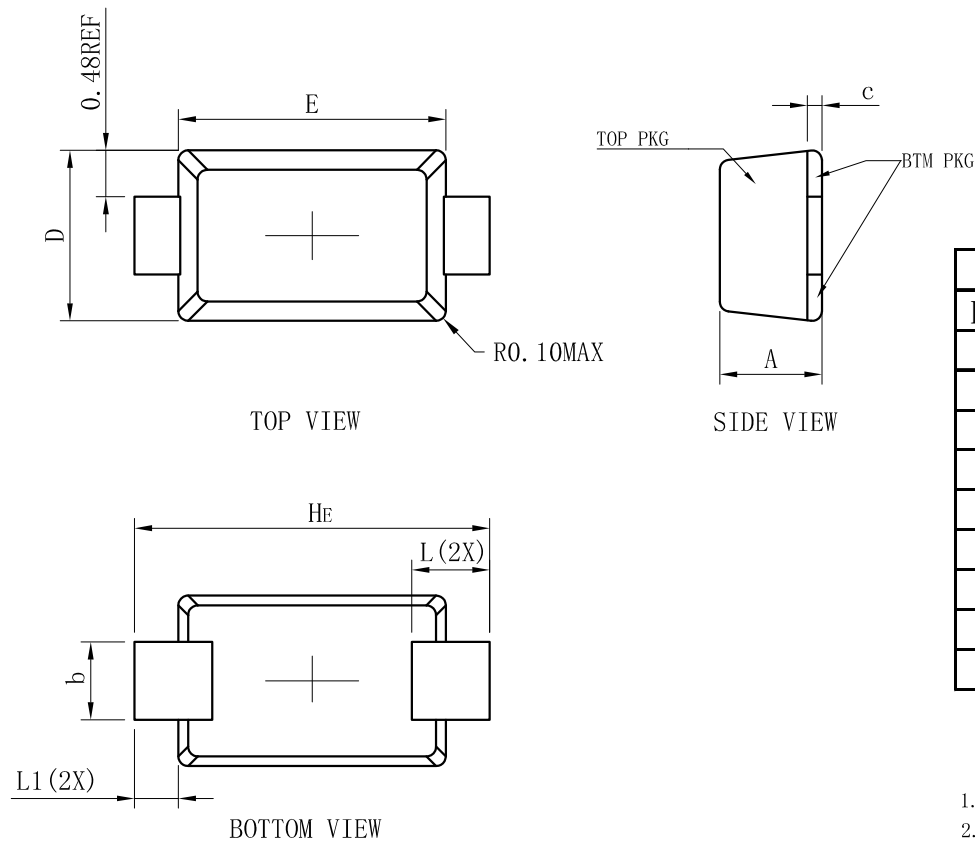
Characteristic	Symbol	Min	Typ.	Max	Unit
Maximum instantaneous forward (IF = 1.0 A, TJ = 25°C)	VF	-	-	0.5	V
Maximum DC reverse current at rated DC blocking voltage TA = 25°C Tj = 125°C	IR	-	-	0.5	mA
		-	-	10	
Junction capacitance at 4.0V, 1MHz	CJ	-	76	-	pF

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

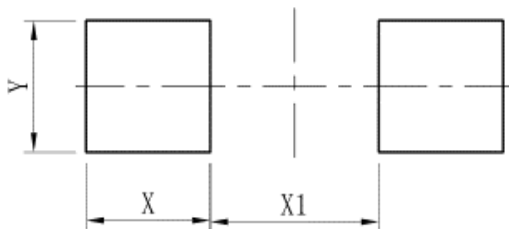
5. ELECTRICAL CHARACTERISTICS CURVES



6.OUTLINE AND DIMENSIONS



7.SOLDERING FOOTPRINT



DIM	(mm)
X	1.20
Y	1.10
X1	2.00

DISCLAIMER

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