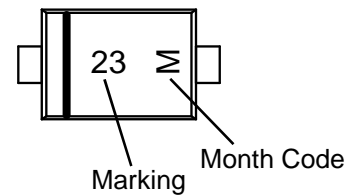
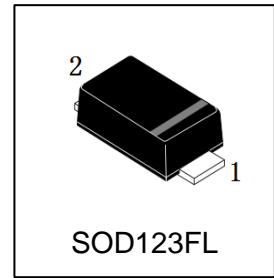


LMBR230FT1G

S-LMBR230FT1G

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.

2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LMBR230FT1G	23	3000/Tape&Reel
S-LMBR230FT1G	23	3000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

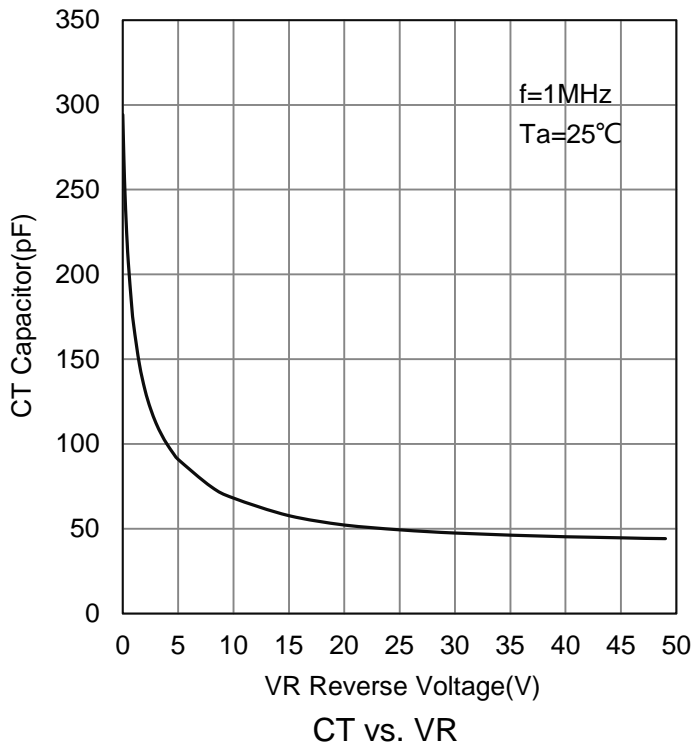
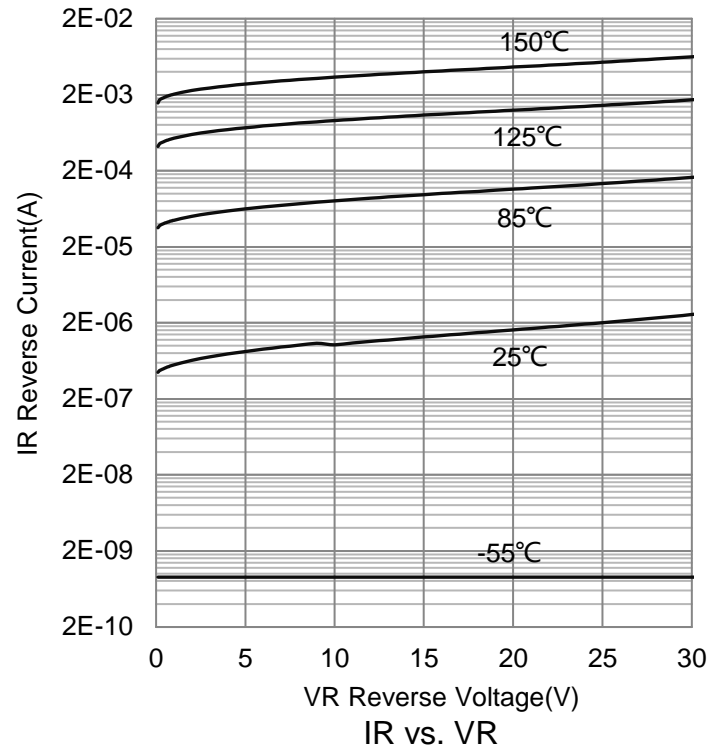
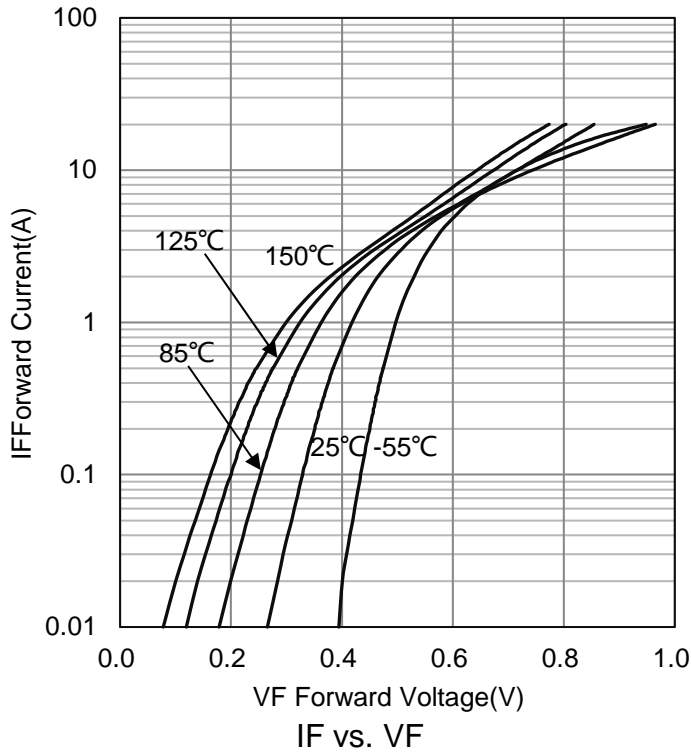
Parameter	Symbol	Limits	Unit
Maximum repetitive peak reverse voltage	VRRM	30	V
Maximum RMS voltage	VRMS	21	V
Maximum DC blocking voltage	VDC	30	V
Maximum average forward rectified current at TC = 75°C	IF(AV)	2	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50	A
Power Dissipation	PD	400	mW
Typical thermal resistance (Note 1)	RθJA RθJL	170 40	°C/W
Operating junction temperature range	TJ	-55 ~ +150	°C
storage temperature range	TSTG	-65 ~ +175	°C

1. 8.0mm² (.013mm thick) land areas

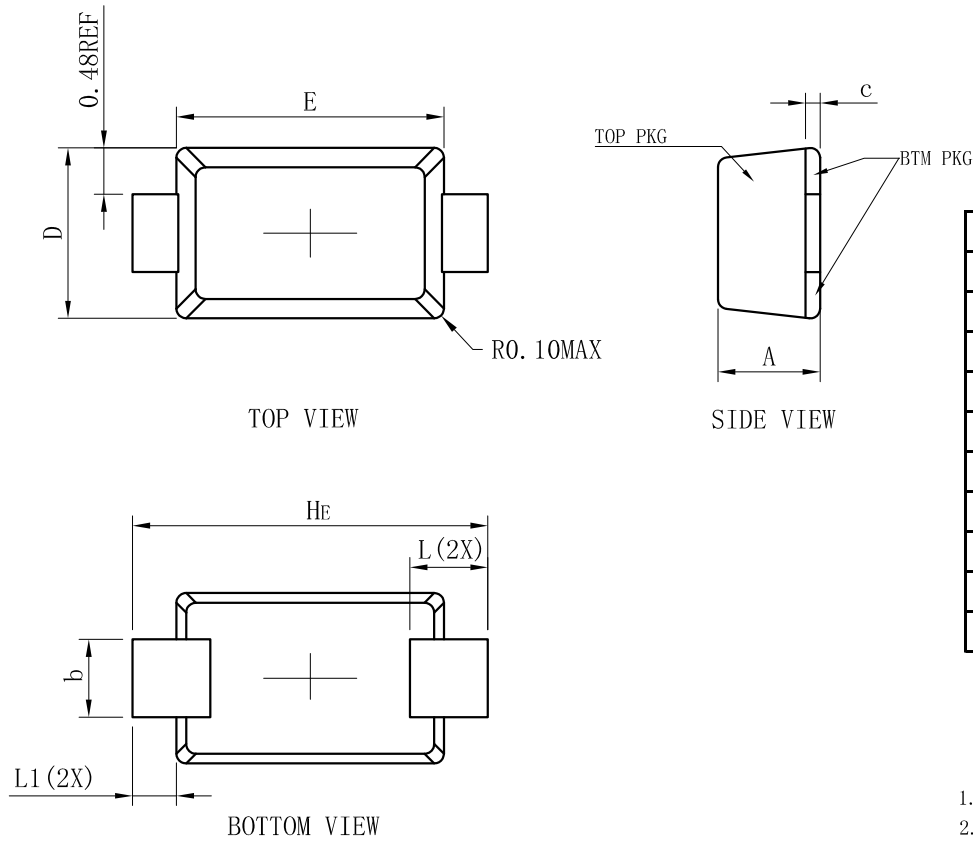
4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Maximum instantaneous forward voltage at 2.0A	VF	-	-	0.5	V
Maximum DC reverse current at rated DC blocking voltage TA = 25°C	IR	-	-	0.5	mA
Tj = 100 °C		-	-	20	
Typical junction capacitance at 4.0V, 1MHz	CJ	-	100	-	pF

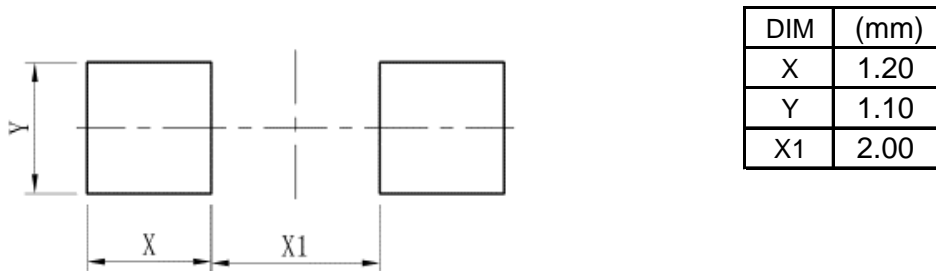
5.ELECTRICAL CHARACTERISTICS CURVES



6.OUTLINE AND DIMENSIONS



7.SOLDERING FOOTPRINT



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