

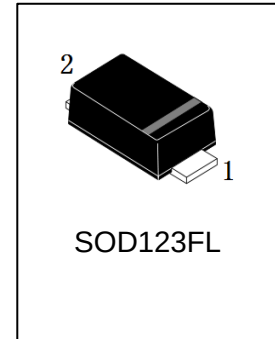
LMBR120SFT1G

S-LMBR120SFT1G

Surface Mount Schottky Power Rectifier

1. FEATURES

- Low power losses, high efficiency.
- Low Leakage
- Guardring for Stress Protection
- 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. APPLICATIONS

- It is ideal use for phones, chargers, notebook computers, printers, PDAs and PCMCIA cards.
- Reverse battery protection



3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LMBR120SFT1G	12S	3000/Tape&Reel
S-LMBR120SFT1G	12S	3000/Tape&Reel

4. MAXIMUM RATINGS(Ta = 25°C)

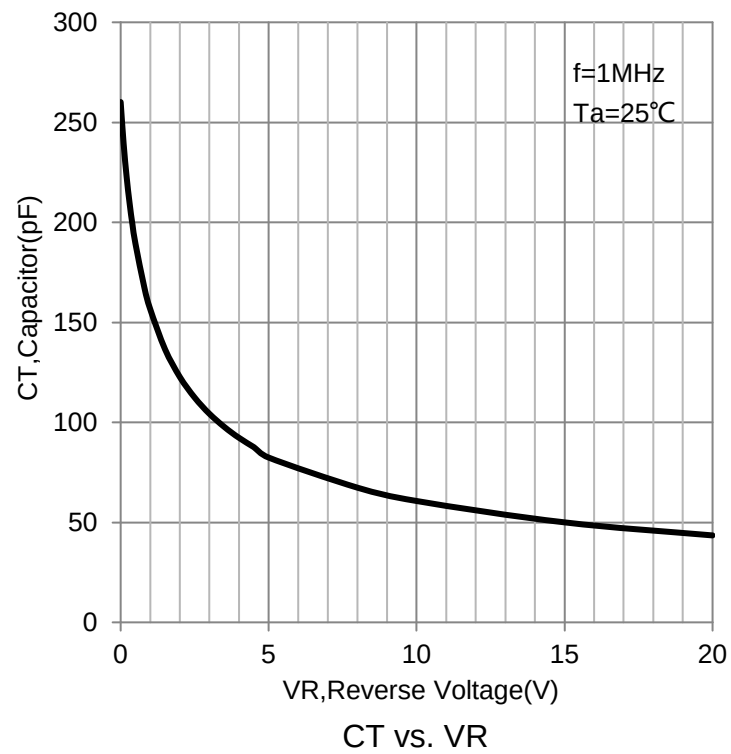
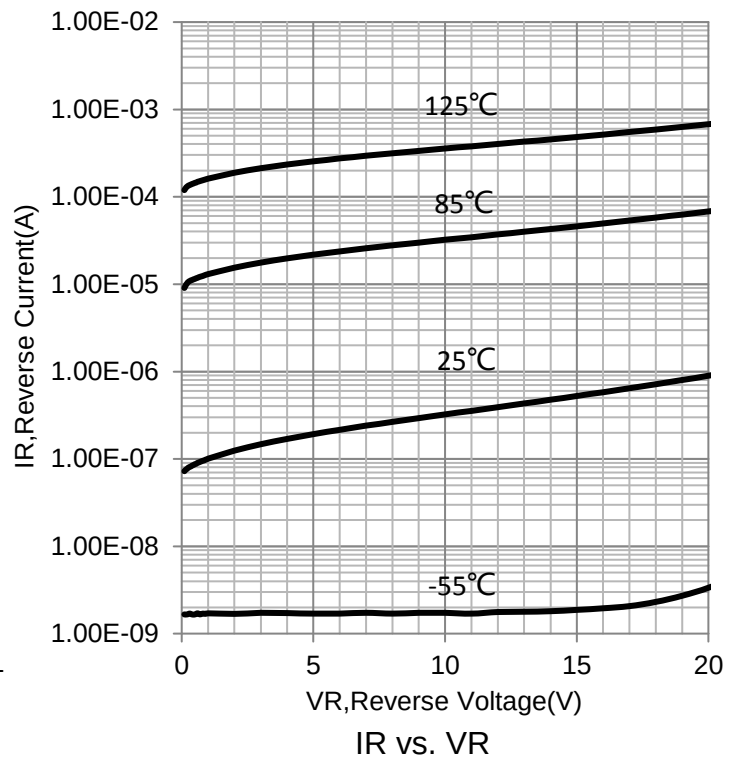
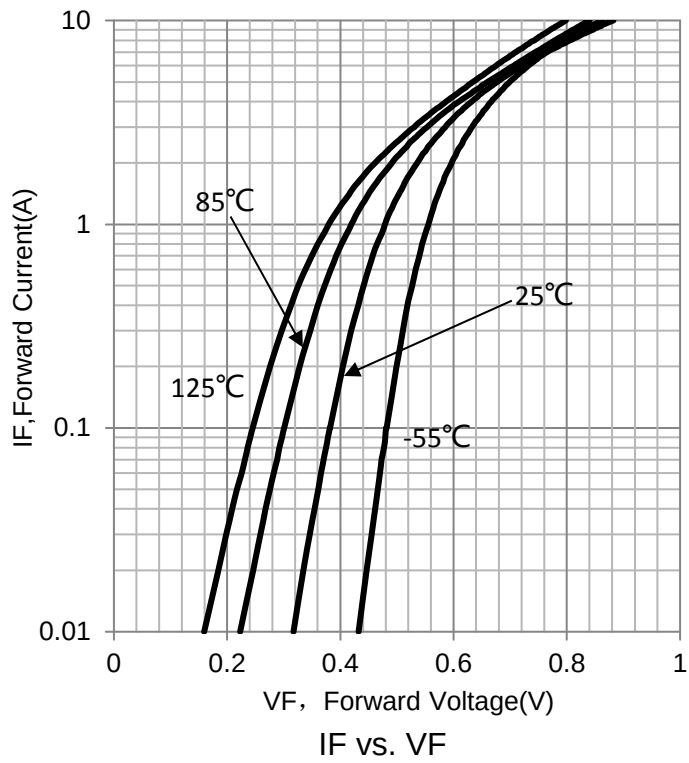
Parameter	Symbol	Limits	Unit
Maximum repetitive peak reverse voltage	VRRM	20	V
Working Peak Reverse Voltage	VRWM	20	V
DC Blocking Voltage	VR	20	V
Average Rectified Forward Current (@TL = 140°C)	IO	1	A
Maximum average forward rectified current	IF(AV)	1	A
Non-Repetitive peak surge current, halfwave, single phase, 60 Hz.	IFSM	40	A
Power Dissipation	PD	400	mW
Typical thermal resistance (Note 1)	RθJA	170	°C/W
	RθJL	40	
Operating junction temperature range	TJ	-40 ~ +125	°C
Storage temperature range	TSTG	-40 ~ +150	°C
Voltage Rate of Change (Rated VR, TJ = 25°C)	dv/dt	10000	V/μs

1. Mounted with minimum recommended pad size, PC Board FR4.

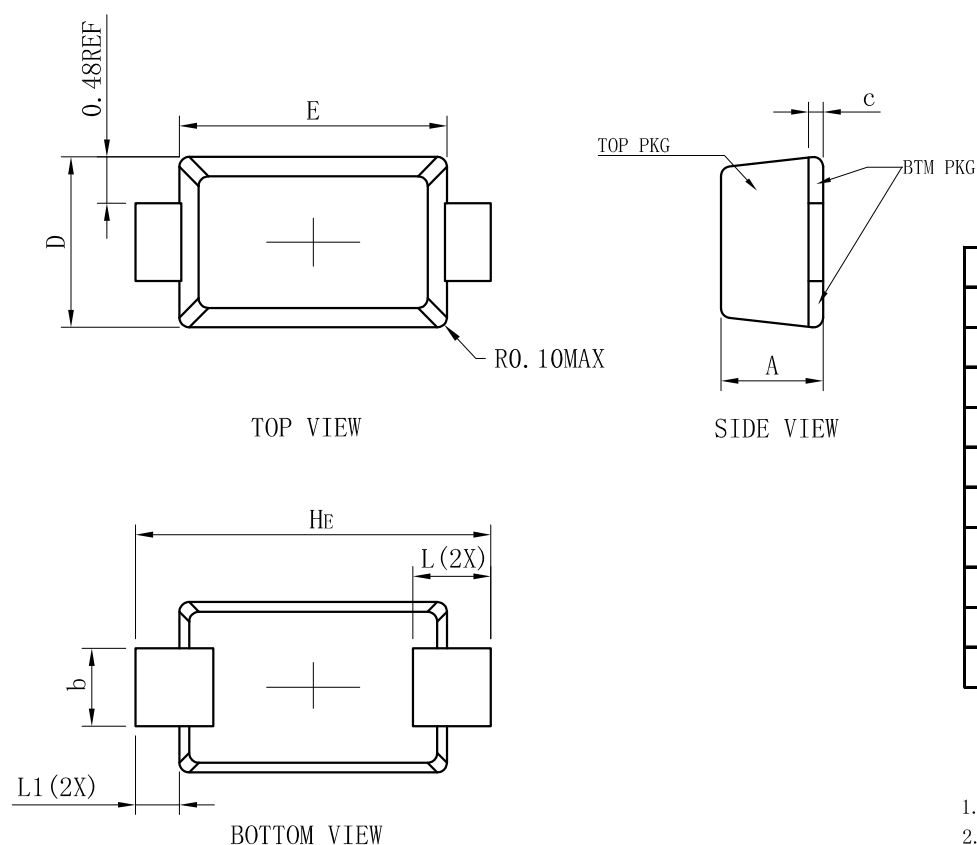
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Maximum instantaneous forward voltage (IF = 0.1 A)	VF	-	-	0.455	V
(IF = 1 A)		-	-	0.52	
(IF = 2 A)		-	-	0.59	
Maximum Instantaneous Reverse Current (VR=5V)	IR	-	-	0.5	μA
(VR=10V)		-	-	1	
(VR=20V)		-	-	10	

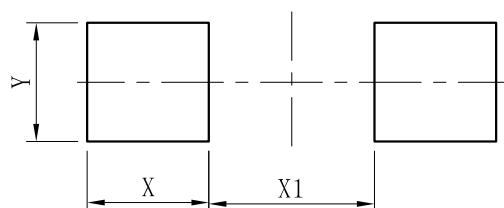
6.ELECTRICAL CHARACTERISTICS CURVES



7.OUTLINE AND DIMENSIONS



8.SOLDERING FOOTPRINT



DIM	(mm)
X	1.20
Y	1.10
X1	2.00

DISCLAIMER

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