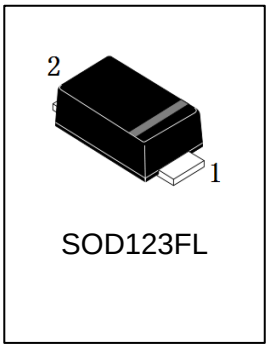
LMBR120SFT1G
S-LMBR120SFT1G

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 = 25ºC)

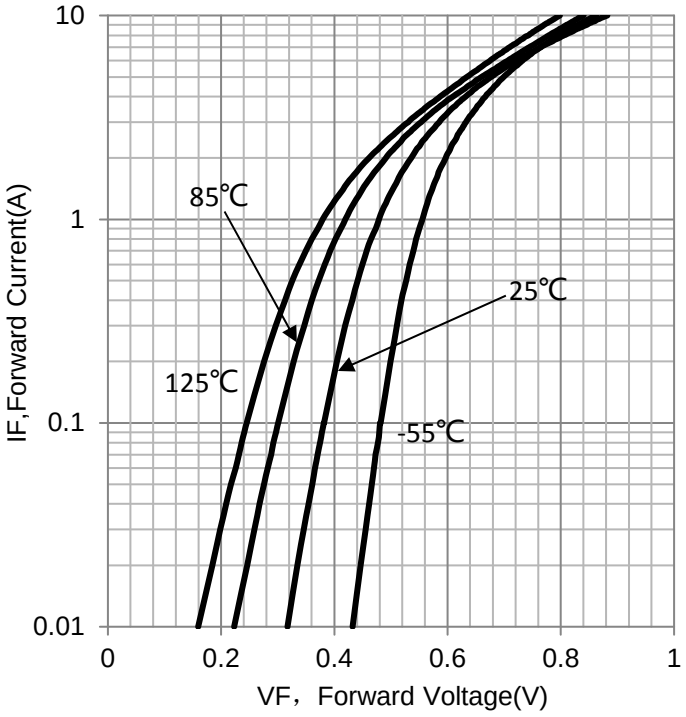
Parameter	Symbol	Limits	Unit
Maximum repetitive peak reverse voltage	VRRM	20	V
Working Peak Reverse Voltage	VRWM	20	V
DC Blocking Voltage	VR	20	V
Average Rectified Forward Current (@TL = 140°C)	IO	1	A
Maximum average forward rectified current	IF(AV)	1	A
Non−Repetitive peak surge current, halfwave , single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

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

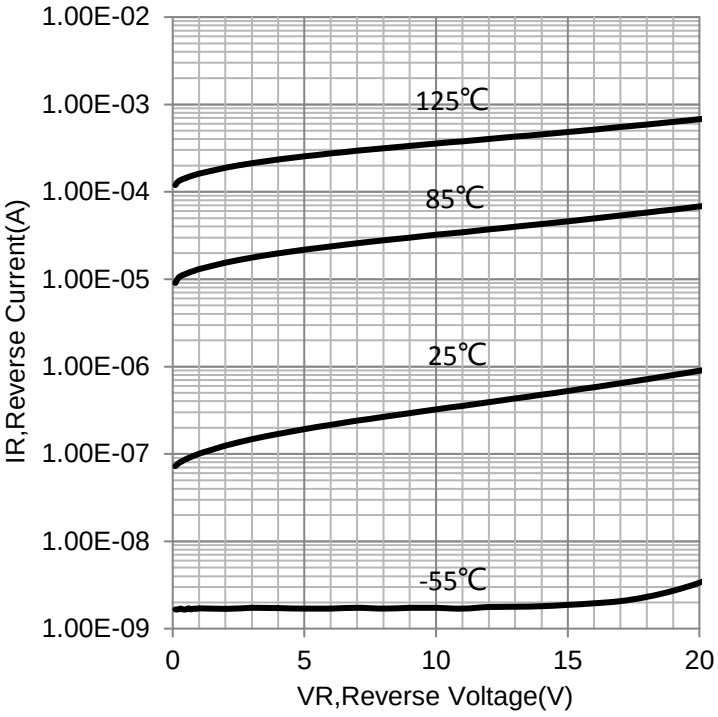
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

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	

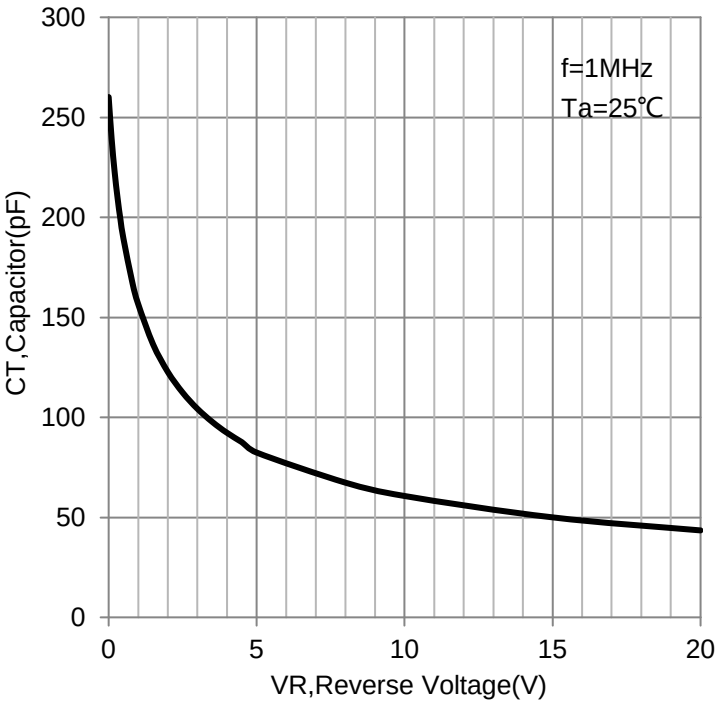
6.ELECTRICAL CHARACTERISTICS CURVES



IF vs. VF

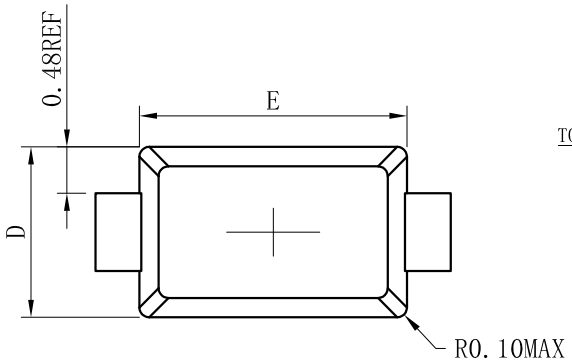


IR vs. VR

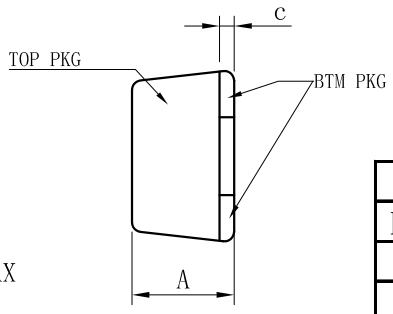


CT vs. VR

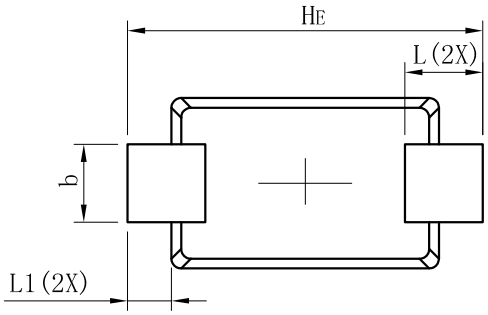
7.OUTLINE AND DIMENSIONS



TOP VIEW



SIDE VIEW



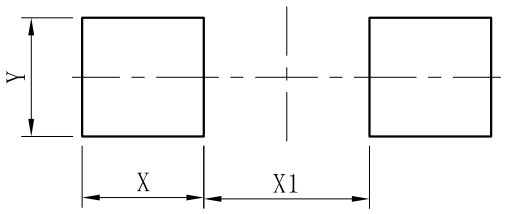
BOTTOM VIEW

SOD123FL			
DIM	MIN	NOR	MAX
A	0.90	1.05	1.15
b	0.75	0.80	0.95
L	0.50	0.80	1.10
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	0.25	0.45	0.65
All Dimensions in mm			

GENERAL NOTES

1. Top package surface finish Ra0.4±0.2um
2. Bottom package surface finish Ra0.7±0.2um
3. Side package surface finish Ra0.4±0.2um

8.SOLDERING FOOTPRINT



DIM	(mm)
X	1.20
Y	1.10
X1	2.00

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单击下面可查看定价，库存，交付和生命周期等信息

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