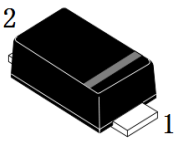
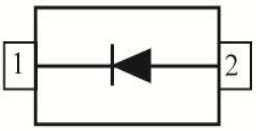
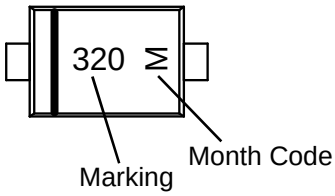
LMBR3200FT1G
S-LMBR3200FT1G

Schottky Barrier Rectifiers



SOD123FL





1. FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- Low power loss,high efficiency.
- For use in low voltage high frequency inverters,free wheeling,and polarity protection applications.
- Guardring for over voltage protection.
- High temperature soldering guaranteed:260°C/10 seconds at terminals.
- 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
LMBR3200FT1G	320	3000/Tape&Reel
S-LMBR3200FT1G	320	3000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25ºC)

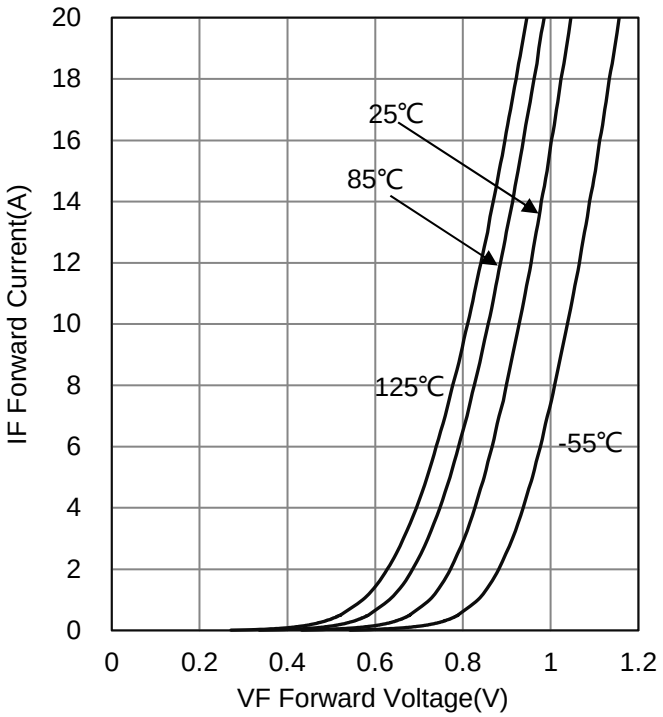
Parameter	Symbol	Limits	Unit
Maximum repetitive peak reverse voltage	VRRM	200	V
Maximum RMS voltage	VRMS	140	V
Maximum DC blocking voltage	VDC	200	V
Maximum average forward rectified current at TC = 75°C	IF(AV)	3	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	72	A
Power Dissipation	PD	400	mW
Typical thermal resistance (Note 1)	RθJA	170	℃/W
	RθJL	40	
Operating junction temperature range	TJ	–40 ~ +150	℃
storage temperature range	TSTG	–40 ~ +150	℃

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

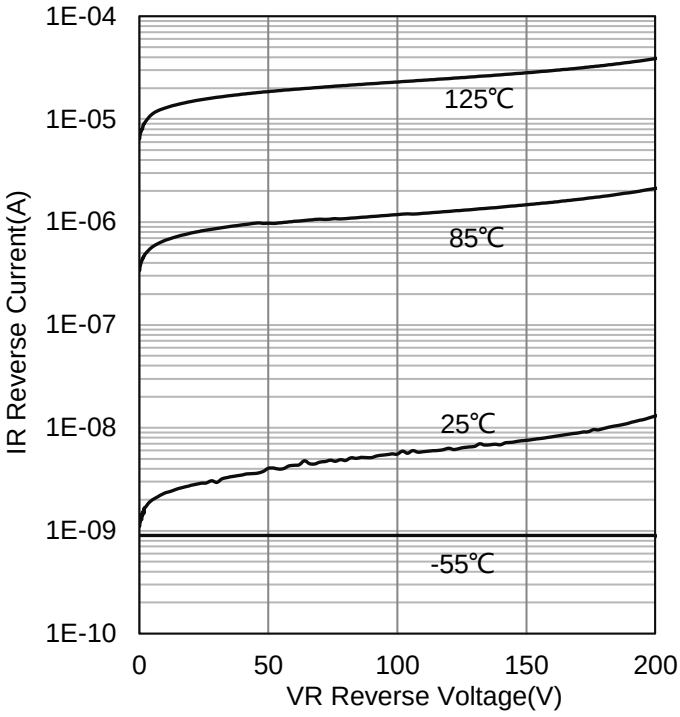
4. ELECTRICAL CHARACTERISTICS (Ta= 25ºC)

Characteristic	Symbol	Min	Typ.	Max	Unit
Maximum instantaneous forward voltage at 3.0A	VF	-	-	0.92	V
Maximum DC reverse current at rated DC blocking voltage TA = 25°C	IR	-	-	5	uA
Tj = 100°C		-	-	20	mA
Junction capacitance at 4.0V, 1MHz	CJ	-	51	-	pF

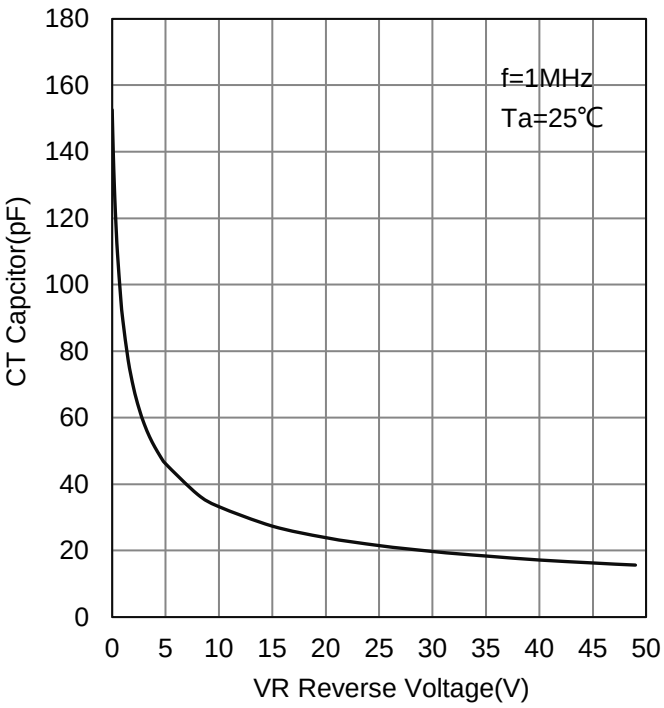
5.ELECTRICAL CHARACTERISTICS CURVES



IF vs. VF

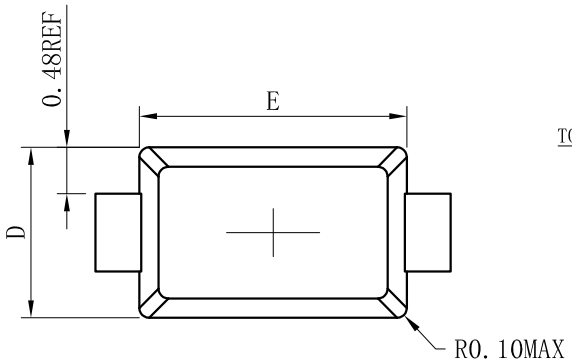


IR vs. VR

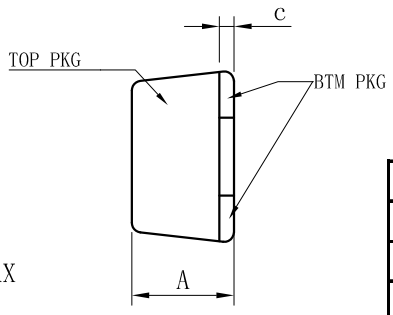


CT vs. VR

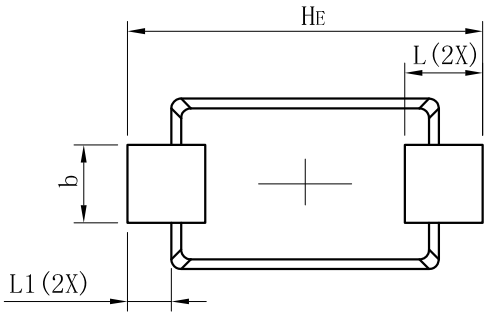
6.OUTLINE AND DIMENSIONS



TOP VIEW



SIDE VIEW



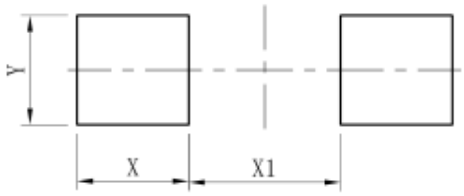
BOTTOM VIEW

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

7.SOLDERING FOOTPRINT



DIM	(mm)
X	1.20
Y	1.10
X1	2.00

DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.

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