

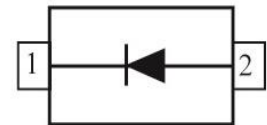
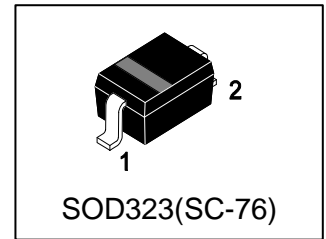
LBAT46HT1G

S-LBAT46HT1G

Schottky Power Rectifier

1. FEATURES

- Very small conduction losses
- Negligible switching losses
- Low forward voltage drop
- Surface mount device
- 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
LBAT46HT1G	Z46	3000/Tape&Reel
LBAT46HT3G	Z46	10000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Repetitive peak reverse voltage	VRRM	100	V
Continuous forward current	IF	150	mA
Surge Non repetitive forward current	IFSM	1	A

4. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	200 1.57	mW mW/°C
Thermal Resistance	RθJA RθJC	635 350	°C/W
Junction and Storage temperature	TJ, Tstg	-55~+150	°C

1. FR-5 = 1.0×0.75×0.062 in.

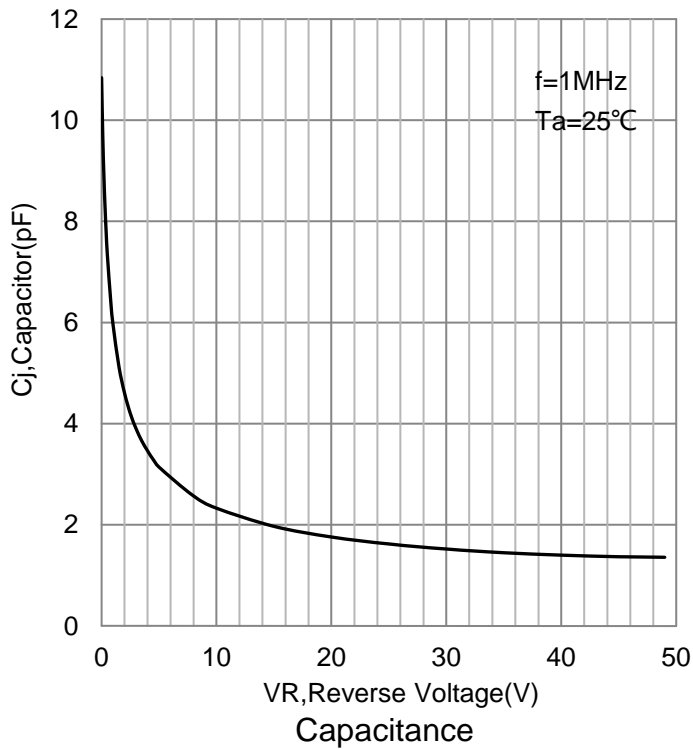
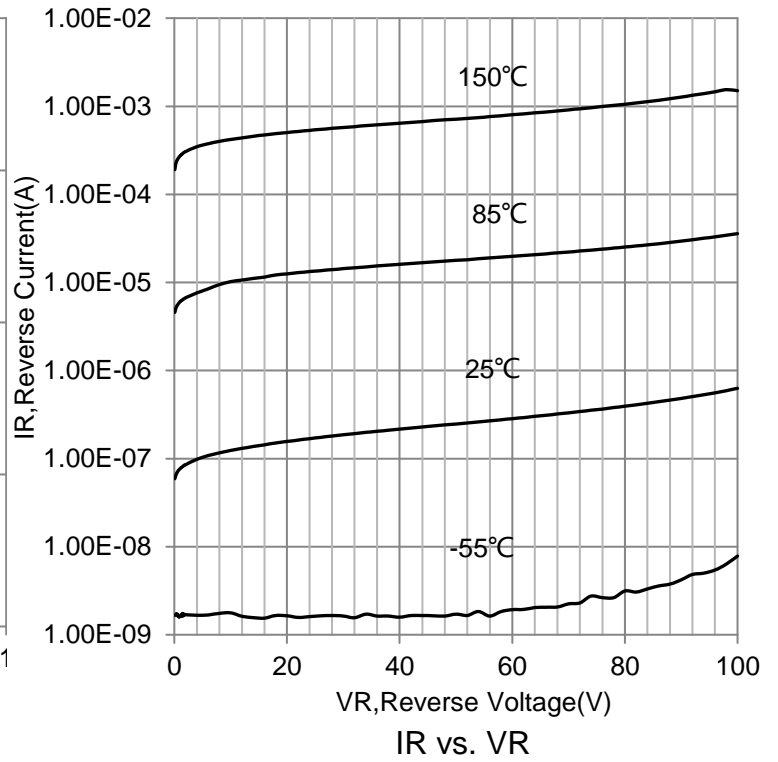
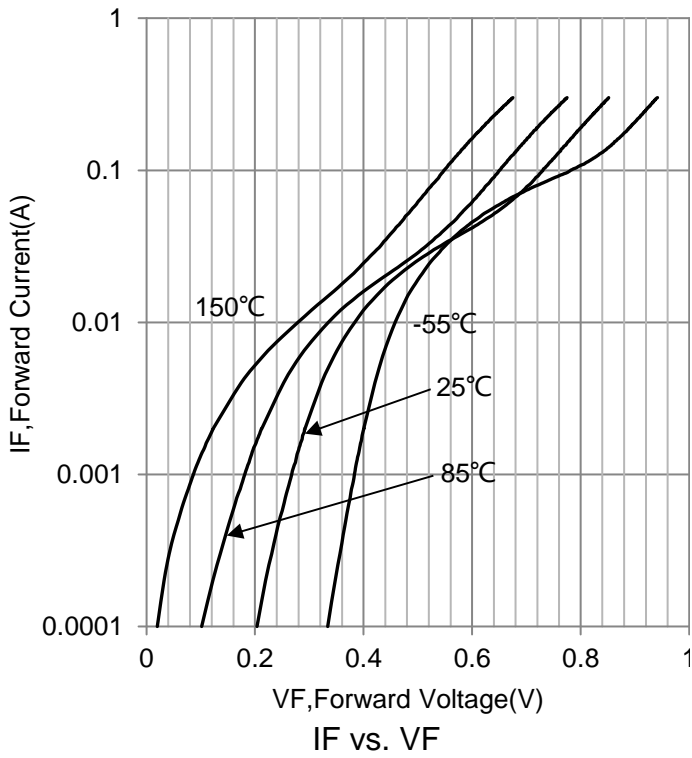
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Leakage Current(Tj = 25°C) (VR=1.5V)	IR(Note 2)	-	-	0.5	μA
(VR=10V)		-	-	0.8	
(VR=50V)		-	-	2	
(VR=75V)		-	-	5	
Reverse Leakage Current(Tj = 60°C)		-	-	5	
(VR=1.5V)		-	-	7.5	
(VR=10V)		-	-	15	
(VR=75V)		-	-	20	
Forward Voltage(Tj = 25°C) (IF=0.1mA)	VF	-	-	0.25	V
(IF=10mA)		-	-	0.45	
(IF=250mA)		-	-	1	
Diode Capacitance (VR =0V, f=1.0MHz)	Cd	-	11	-	pF
(VR =1V, f=1.0MHz)		-	6	-	

2 Pulse test: tp = 5 ms, δ < 2 %

3 Pulse test: tp = 380 μs, δ < 2 %

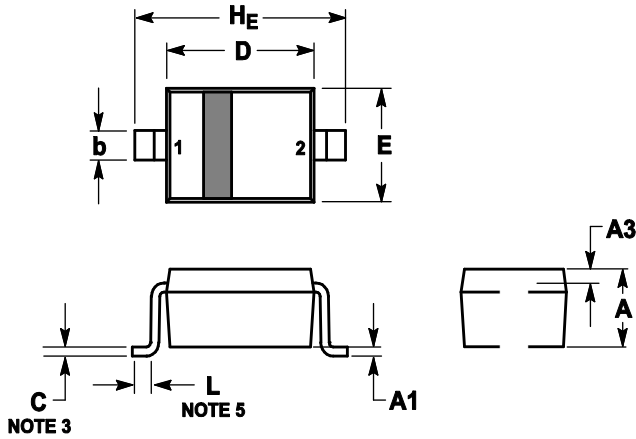
6.ELECTRICAL CHARACTERISTICS CURVES



7. OUTLINE AND DIMENSIONS

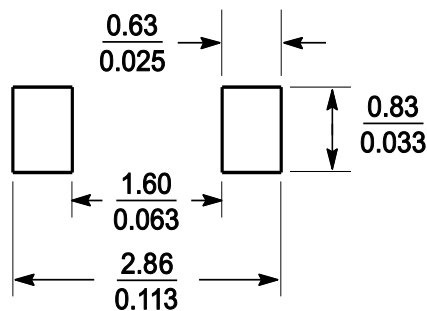
Notes:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.8	0.9	1	0.031	0.035	0.04
A1	0	0.05	0.1	0	0.002	0.004
A3	0.15REF			0.006REF		
b	0.25	0.32	0.4	0.01	0.012	0.016
C	0.089	0.12	0.177	0.003	0.005	0.007
D	1.6	1.7	1.8	0.062	0.066	0.07
E	1.15	1.25	1.35	0.045	0.049	0.053
L	0.08			0.003		
H_E	2.3	2.5	2.7	0.09	0.098	0.105

8. SOLDERING FOOTPRINT



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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- All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using LRC's Products, please confirm the latest information with a LRC sales representative.

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