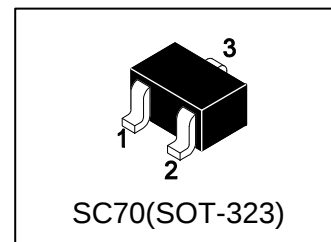


LBAT54WT1G

Schottky Barrier Diode



1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- Extremely Fast Switching Speed
- Low Forward Voltage — 0.35 V (Typ) @ IF = 10mA

2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LBAT54WT1G	B4	3000/Tape&Reel
LBAT54WT3G	B4	13000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage	VR	30	V
Forward Current (DC)	IF	200	mA
Junction temperature	Tj	-55~+125	°C
Storage Temperature Range	Tstg	-55~+150	°C

4. THERMAL CHARACTERISTICS

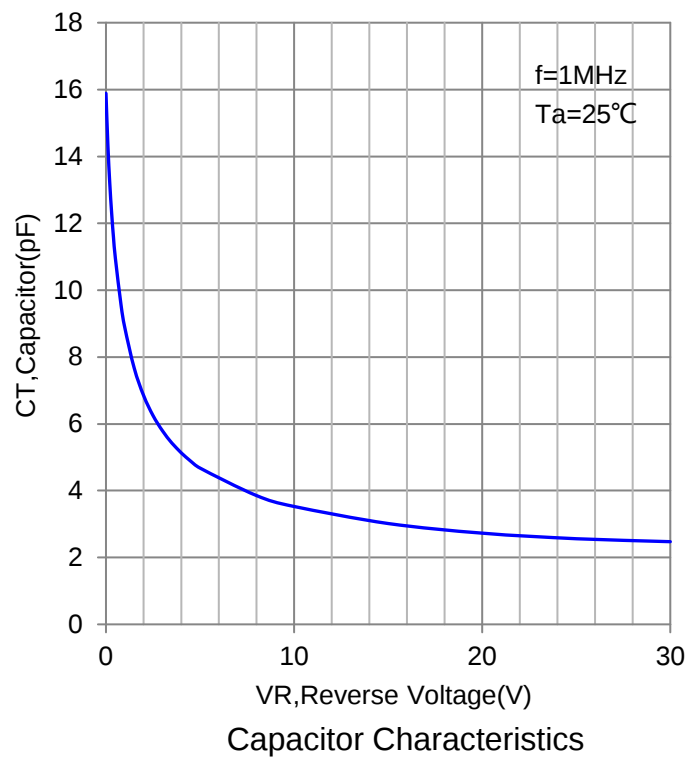
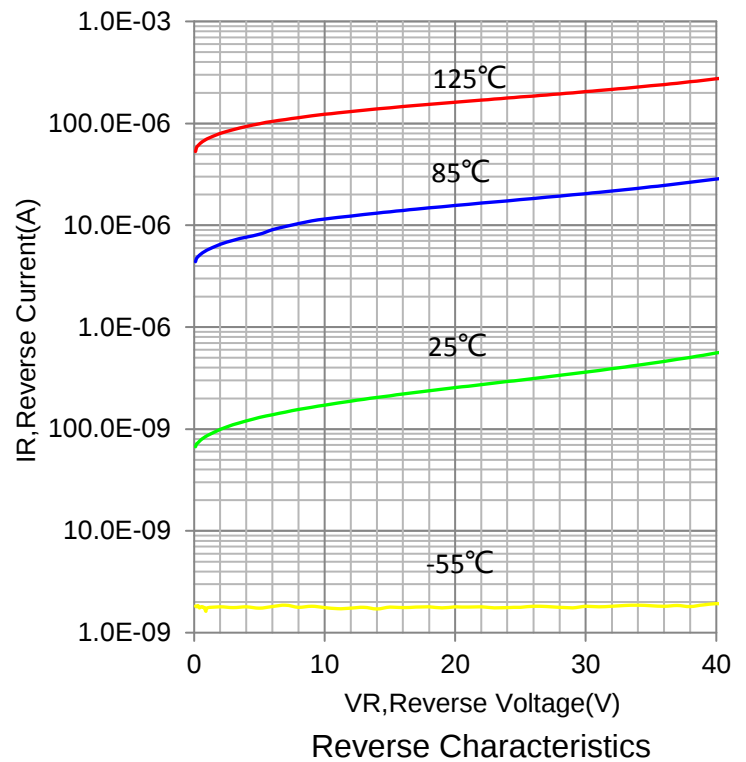
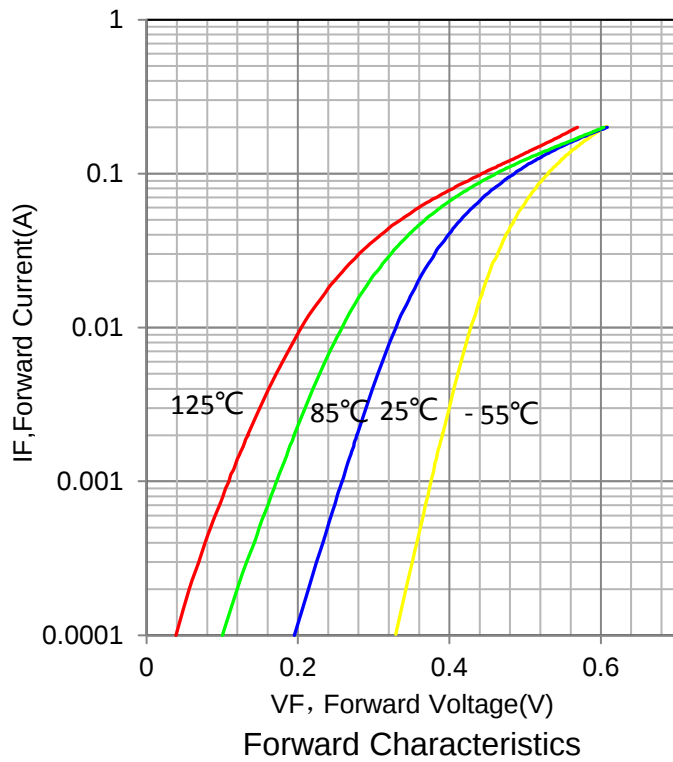
Parameter	Symbol	Limits	Unit
Total Device Dissipation, (Note 1) @ TA = 25°C	PD	225	mW
Thermal Resistance, Junction-to-Ambient(Note 1)	RθJA	443	°C/W
Junction-to-Case	RθJC	160	

1. Device mounted on an FR-4 PCB, single-sided copper, tin-plated and standard footprint.

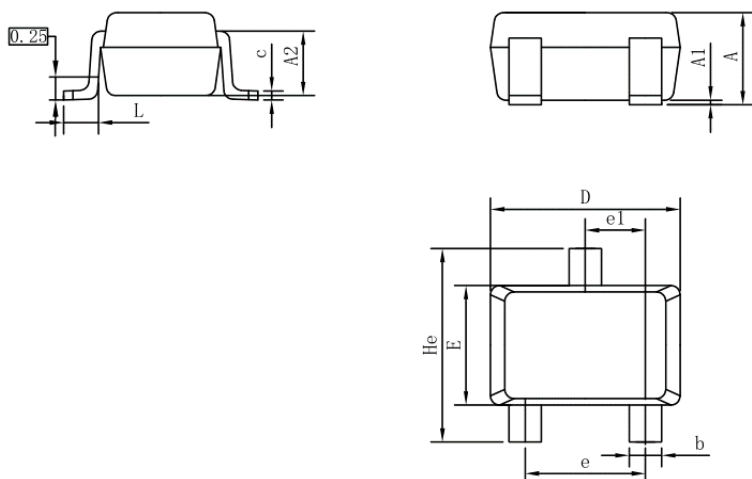
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage (IR = 10μA)	VBR	30	-	-	V
Diode Capacitance (VR = 1.0V , f = 1.0 MHz)	CT	-	10	-	pF
Reverse Voltage Leakage Current (VR = 25V)	IR	-	0.5	2	μA
Forward Voltage (IF = 0.1 mA) (IF = 1 mA) (IF = 10 mA) (IF = 30 mA) (IF = 100 mA)	VF	- - - - -	0.22 0.29 0.35 0.41 0.52	0.24 0.32 0.4 0.5 1	V
Forward Current (DC)	IF	-	-	200	mA
Repetitive Peak Forward Current	IFRM	-	-	300	
Non-Repetitive Peak Forward Current (t < 1.0 s)	IFSM	-	-	600	

6. ELECTRICAL CHARACTERISTICS CURVES

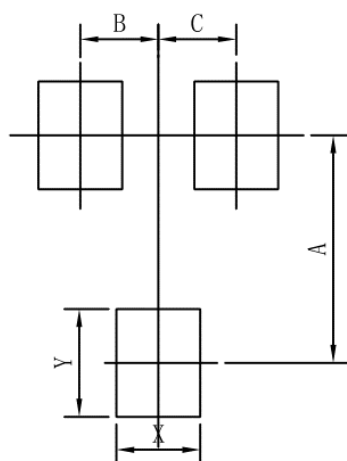


7.OUTLINE AND DIMENSIONS



SC70			
DIM	MIN	NOR	MAX
A	0.80	0.95	1.00
A1	0.00	0.05	0.10
A2	0.7 REF		
b	0.30	0.35	0.40
c	0.10	0.15	0.25
D	1.80	2.05	2.20
E	1.15	1.30	1.35
e	1.20	1.30	1.40
e1	0.65 BSC		
L	0.20	0.35	0.56
He	2.00	2.10	2.40
ALL Dimension in mm			

8.SOLDERING FOOTPRINT



SC70	
DIM	(mm)
A	1.90
B	0.65
C	0.65
X	0.70
Y	0.90

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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