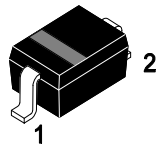
LBAS16HT1G

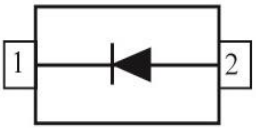
Switching Diode



SOD323(SC-76)

1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- Small plastic SMD package
- High-speed switching in hybrid thick and thin-film circuits.



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LBAS16HT1G	A6	3000/Tape&Reel
LBAS16HT3G	A6	13000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25ºC)

Parameter	Symbol	Limits	Unit
DC Reverse Voltage	VR	100	V
Peak Forward Current	IF	200	mA
Repetitive Peak Forward Surge Current	IFRM	500	mA
Non-Repetitive Peak Forward Surge Current ;Tj=25°C prior to surge	IFSM		
t=1μs		5	A
t=1ms		1	A
Junction and Storage temperature	TJ,Tstg	−55~+150	°C
Operating temperature	Top	−55~+150	°C

4. THERMAL CHARACTERISTICS

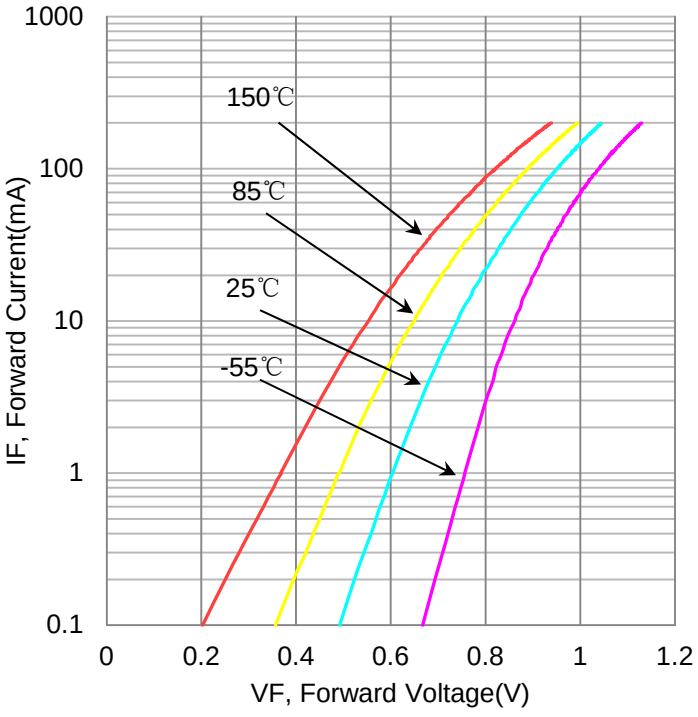
Parameter	Symbol	Limits	Unit
Total Device Dissipation, (Note 1) @ TA = 25ºC	PD	297	mW
Derate above 25ºC		2.4	mW/ºC
Thermal Resistance, Junction to Ambient	RΘJA	421	ºC/W
Thermal Resistance, Junction to Case	RΘJC	193	ºC/W

1. 30.0mm×25.0mm×1.6mm(FR4), Copper foil thickness 35μm;

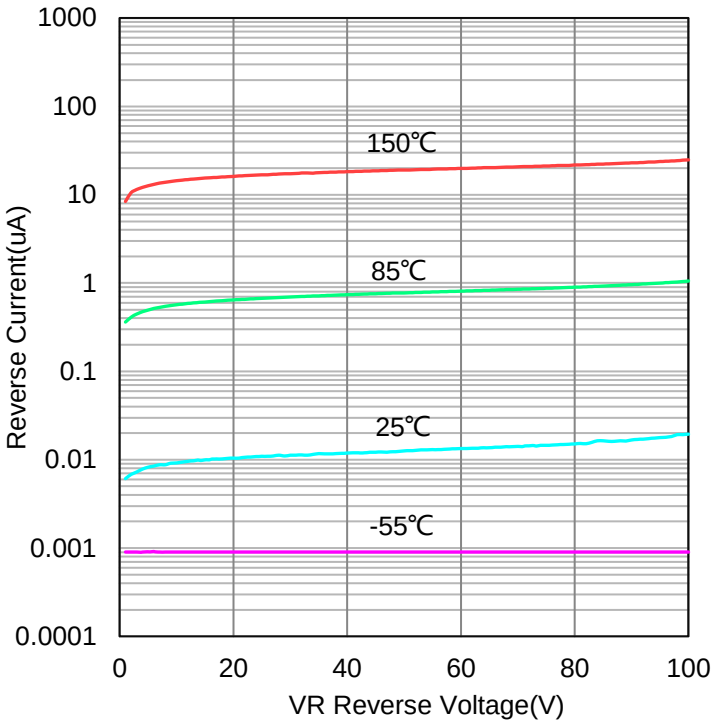
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage (I(BR)=100μA)	VBR	100	-	-	V
Forward Voltage (IF = 1.0 mA) (IF = 10 mA) (IF = 50 mA) (IF = 150 mA)	VF	 - - - -	 - - - -	 715 855 1000 1250	mV
Reverse Voltage Leakage Current (VR = 75V) (VR = 75V,TJ = 150°C) (VR = 25V,TJ = 150°C)	IR	 - - -	 - - -	 1.0 50 30	μA
Diode Capacitance (VR = 0V, f = 1.0 MHz)	CD	-	-	2.0	pF
Reverse Recovery Time (IF=IR=10mA,RL =50Ω)	trr	-	-	4.0	ns
Forward Recovery Voltage (IF = 10 mA, tr = 20 ns)	VFR	-	-	1.75	V

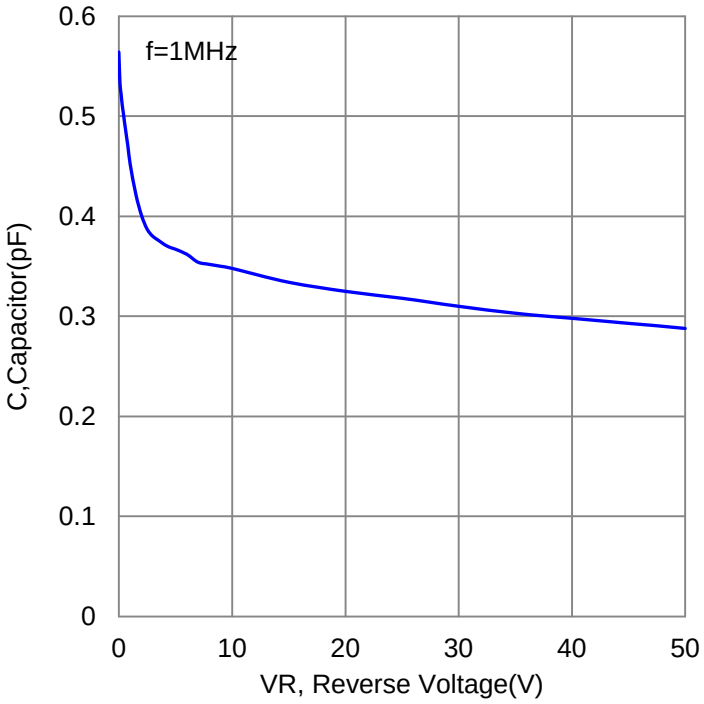
6. ELECTRICAL CHARACTERISTICS CURVES



Forward Characteristics

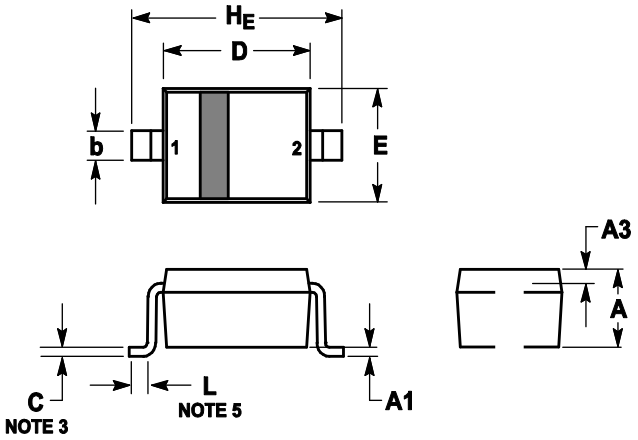


Reverse Characteristics



Capacitor Characteristics

7.OUTLINE AND DIMENSIONS

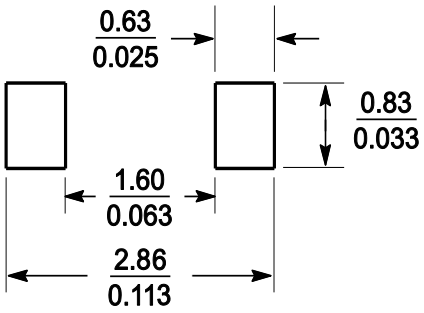


Notes:

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.
5. DIMENSION L IS MEASURED FROM END OF RADIUS.

	MILLIMETERS			INCHES		
DIM	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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