

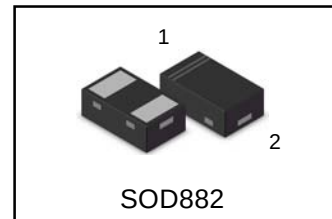
LBAS16BST5G

S-LBAS16BST5G

Switching Diode

1. FEATURES

- 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.
- Small plastic SMD package.
- Continuous reverse voltage: max. 100 V.
- High-speed switching in hybrid thick and thin-film circuits.



2. DEVICE MARKING AND RESISTOR VALUES

Device	Marking	Shipping
LBAS16BST5G	3(Note 1)	10000/Tape&Reel
S-LBAS16BST5G	3(Note 1)	10000/Tape&Reel

1.Rotated 90°

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Continuous reverse voltage	VR	100	V
Peak Forward Current	IF	200	mA
Peak Forward Surge Current	IFSM	500	mA

4. THERMAL CHARACTERISTICS

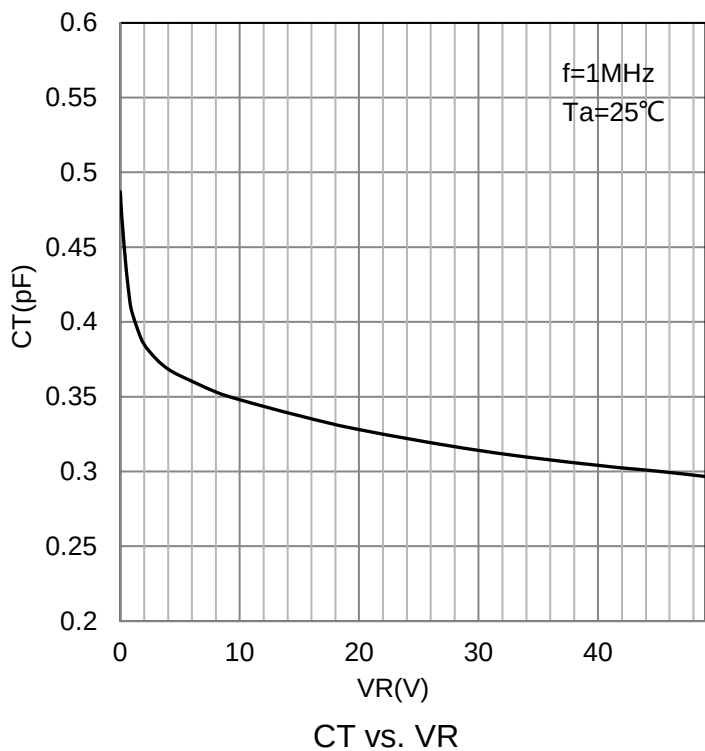
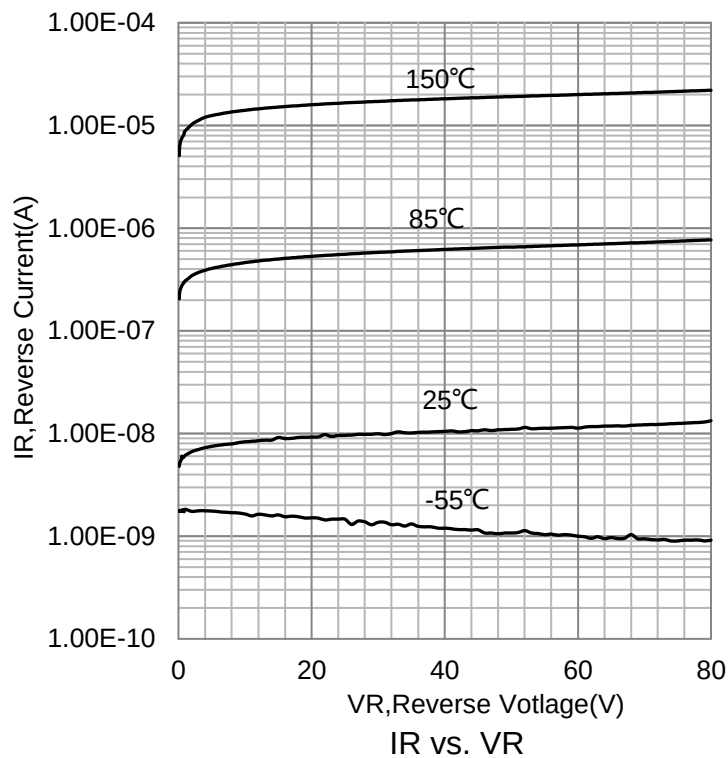
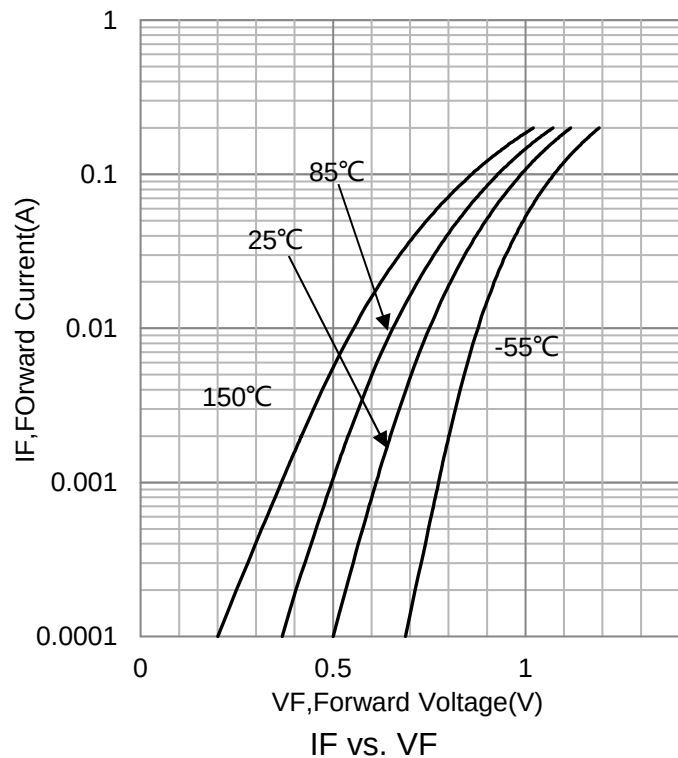
Parameter	Symbol	Limits	Unit
Total Device Dissipation FR- 5 Board, (Note 2) TA = 25°C	PD	200	mW
Derate above 25°C		1.57	mW/°C
Thermal resistance from junction to ambient	RθJA	635	°C/W
Junction and Storage Temperature	TJ , Tstg	-55~+150	°C

2.FR-4 Minimum Pad

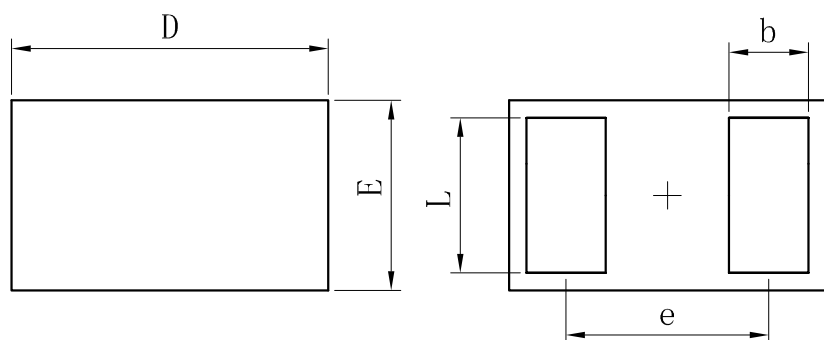
5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

CHARACTERISTICS	Symbol	Min	Max	Unit
Reverse Voltage Leakage Current (VR=75V) (VR=75V, TJ = 150°C) (VR=25V, TJ = 150°C)	IR	- - -	1 50 30	μA
Reverse Breakdown Voltage (IBR = 100 μA)	VBR	100	-	V
Forward voltage (IF =1mA) (IF =10mA) (IF =50mA) (IF =150mA)	VF	- - - -	715 855 1000 1250	mV
Diode capacitance (f=1MHz,VR =0)	Cd	-	2	pF
Reverse Recovery Time (IF = IR = 10mA, RL = 50 Ω)	Trr	-	4	nS
Forward Recovery Voltage (IF = 10 mA, tr = 20 ns)	VFR	-	1.75	V
Stored Charge (IF = 10 mA,VR = 5.0 V, RL = 500 Ω)	QS	-	45	pC

6.ELECTRICAL CHARACTERISTICS CURVES



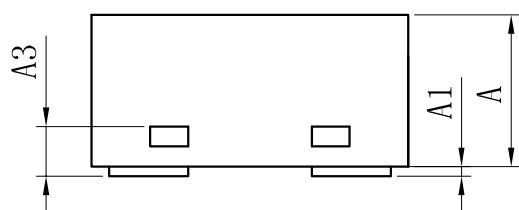
7.OUTLINE AND DIMENSIONS



TOP VIEW

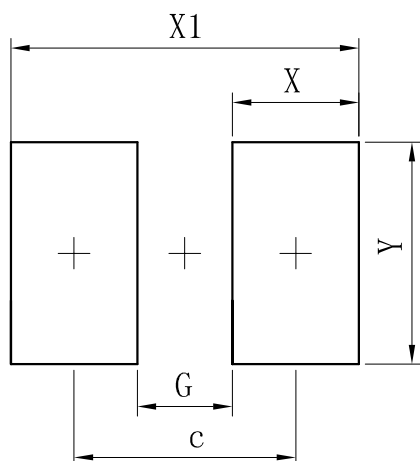
BOTTOM VIEW

SOD882			
Dim	Min	Typ.	Max
D	0.95	1.00	1.05
E	0.55	0.60	0.65
e	-	0.64	-
L	0.44	0.49	0.54
b	0.20	0.25	0.30
A	0.43	0.48	0.53
A1	0	-	0.05
A3	0.127REF.		
All Dimensions in mm			



SIDE VIEW

8.SOLDERING FOOTPRINT



Dimensions	(mm)
c	0.70
G	0.30
X	0.40
X1	1.10
Y	0.70

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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