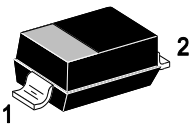
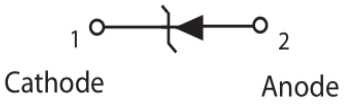
LBAV3004T1G
S-LBAV3004T1G

HIGH VOLTAGE SURFACE MOUNT SWITCHING DIODE



SOD123



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.
- Fast Switching Speed
- High Conductance
- High Reverse Breakdown Voltage Rating

2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LBAV3004T1G	34W	3000/Tape&Reel
LBAV3004T3G	34W	10000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25ºC)

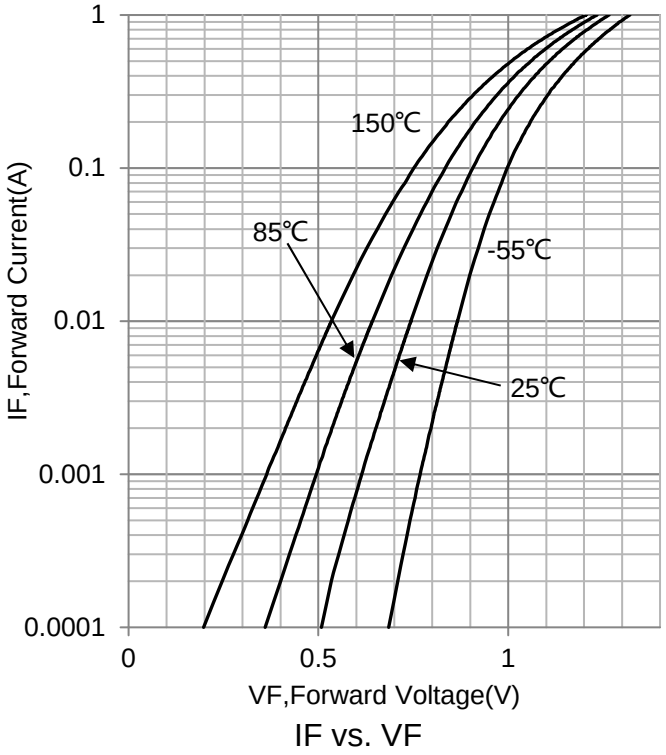
Parameter	Symbol	Limits	Unit
Repetitive Peak Reverse Voltage	VRRM	350	V
RMS Reverse Voltage	VR (RMS)	240	V
Forward Continuous Current(Note 2)	IF	225	mA
Non-Repetitive Peak Forward Surge Current (t=1μs) (t=1s)	IFSM	 4 1	A
Repetitive Peak Forward Current tp≤1ms,δ≤0.5	IFRM	625	mA
Power Dissipation(Note 2)	PD	410	mW
Thermal Resistance Junction to Ambient Air(Note 2)	RΘJA	500	℃/W
Operating and Storage Temperature Range	Tj,Tstg	-65~+150	℃

4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

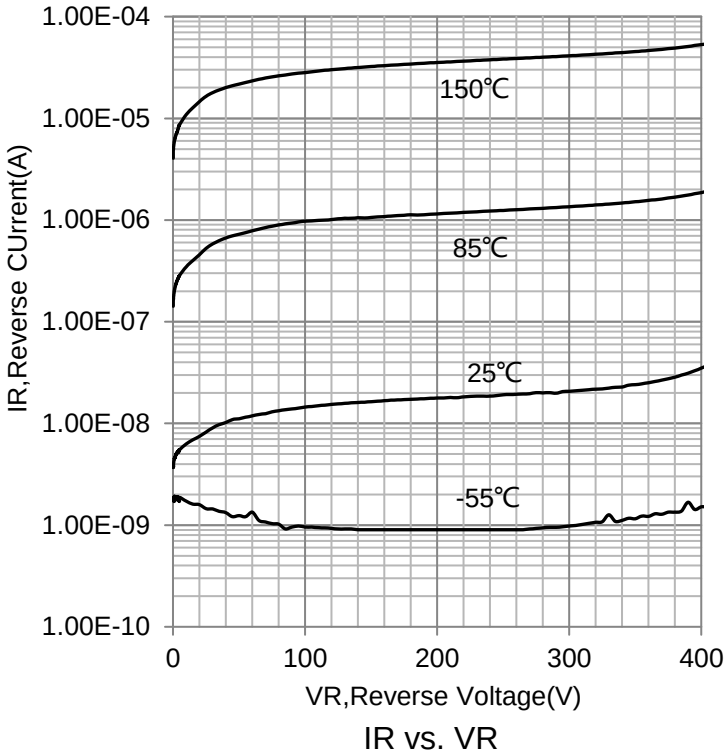
Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage(Note 1) (IR =150μA)	V(BR)R	350	-	-	V
Forward Voltage(Note 1) (IF =20mA) (IF =100mA) (IF =200mA)	VF	 - - -	 0.78 0.93 1.03	 0.87 1 1.25	V
Reverse Current(Note 1) (VR=240V) (VR=240V,Tj =150℃)	IR	 - -	 30 35	 100 100	 nA μA
Total Capacitance (VR =0V, f=1.0MHz)	CT	-	1	5	pF
Reverse Recovery Time (IF =IR =30mA,Irr=3.0mA, RL =100Ω)	trr	-	-	50	ns

1. Short duration test pulse used to minimize self-heating effect.
2. Part mounted on FR-4 board with recommended pad layout.

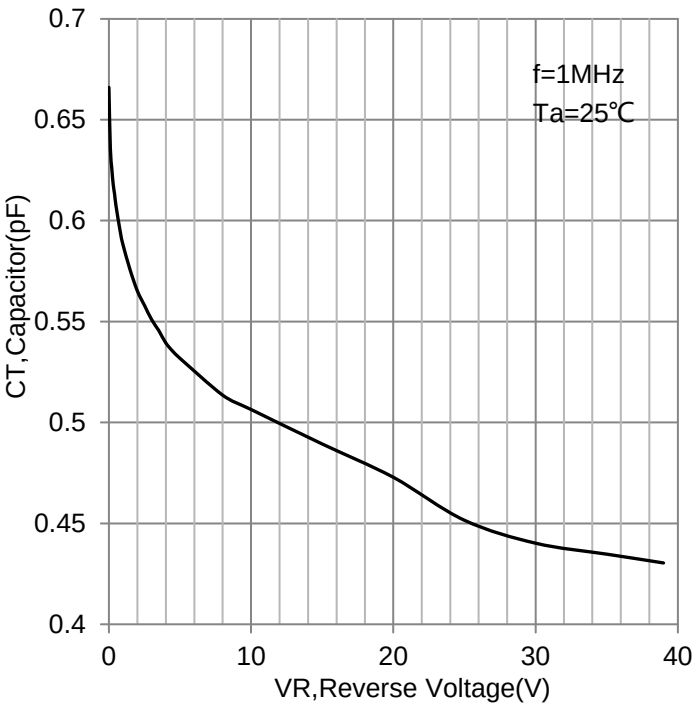
5.ELECTRICAL CHARACTERISTICS CURVES



IF vs. VF

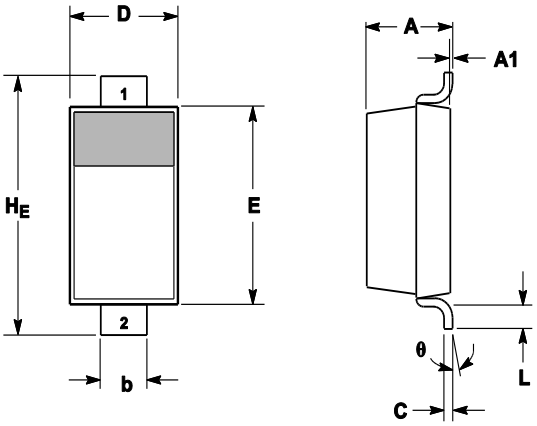


IR vs. VR



CT vs. VR

6.OUTLINE AND DIMENSIONS

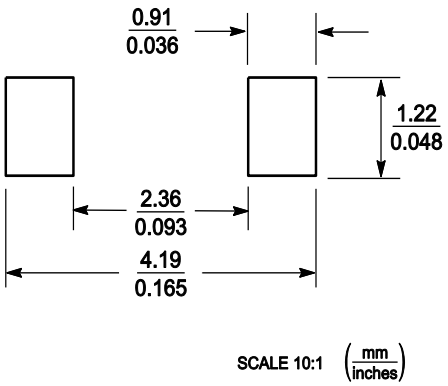


Notes:

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.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
A	0.94	1.17	1.35	0.037	0.046	0.053
A1	0.00	0.05	0.10	0.000	0.002	0.004
b	0.51	0.61	0.71	0.020	0.024	0.028
c	---	---	0.15	---	---	0.006
D	1.40	1.60	1.80	0.055	0.063	0.071
E	2.54	2.69	2.84	0.100	0.106	0.112
H_E	3.56	3.68	3.86	0.140	0.145	0.152
L	0.25	---	---	0.010	---	---
θ	0°	---	10°	0°	---	10°

7.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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