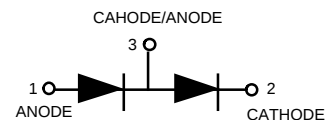
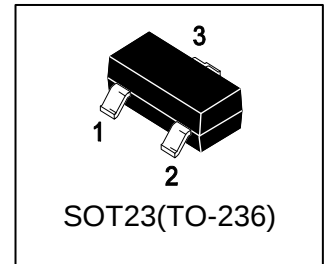


LMBD3004SLT1G

S-LMBD3004SLT1G

HIGH VOLTAGE SURFACE MOUNT
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.
- Fast Switching Speed
- High Conductance
- High Reverse Breakdown Voltage Rating

2. DEVICE MARKING AND RESISTOR VALUES

Device	Marking	Shipping
LMBD3004SLT1G	KAE	3000/Tape&Reel
LMBD3004SLT3G	KAE	13000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Peak Repetitive Reverse Voltage	VRRM	350	V
Working Peak Reverse Voltage	VRWM	350	
DC Blocking Voltage	VR		
RMS Reverse Voltage	VR(RMS)	212	V
Forward Continuous Current (Note 1)	IF	225	mA
Repetitive Peak Forward Current (Note 1)	IFRM	625	mA
Non-Repetitive Peak Forward Surge Current t=1μs t=1s	IFSM	4 1	A

1. Part mounted on FR-4 board with recommended pad layout.

4. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-4 Board (Note 2) @ TA = 25°C Derate above 25°C	PD	280 2.24	mW mW/°C
Thermal Resistance, Junction-to-Ambient(Note 2)	RθJA	446	°C/W
Junction and Storage temperature	TJ, Tstg	-65~+150	°C

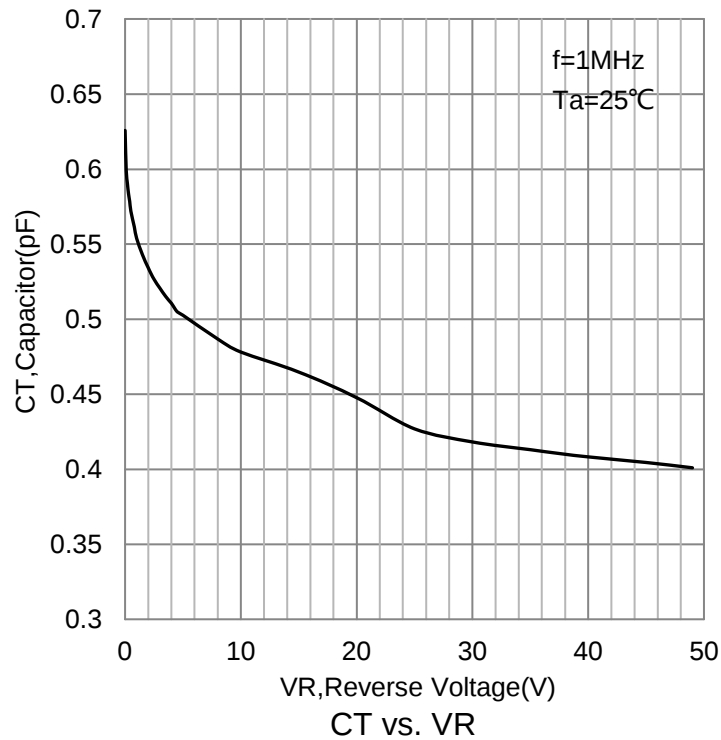
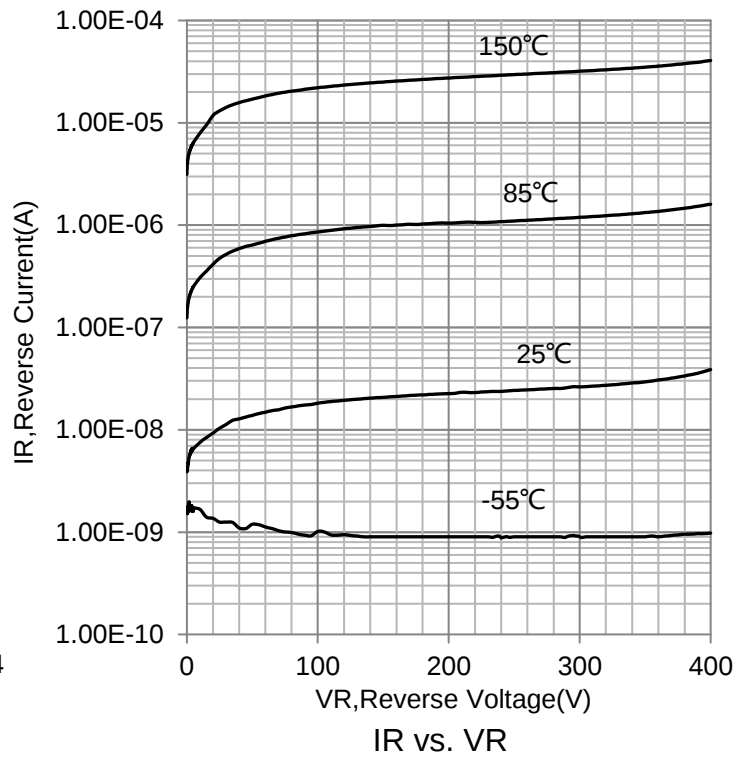
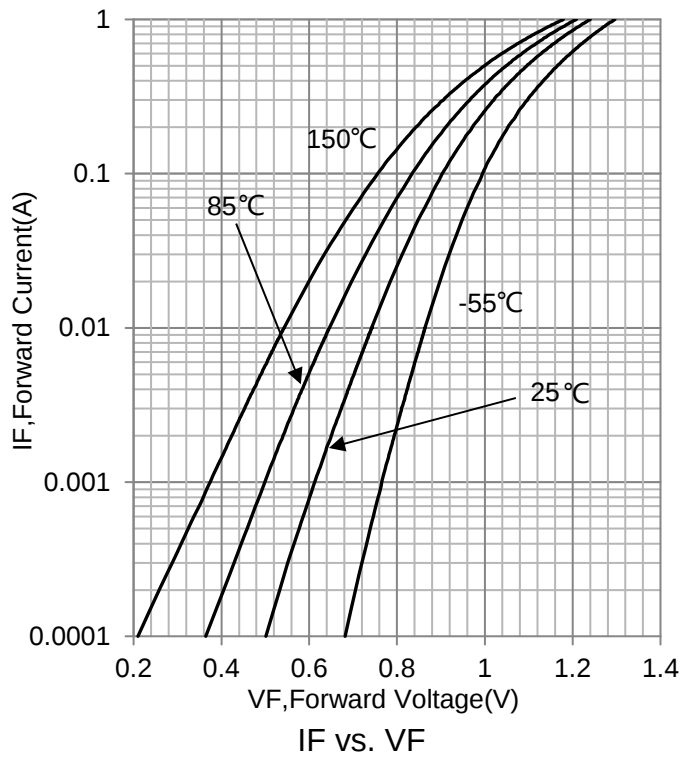
2. FR-4 = 30.0mm×25.0mm×1.6mm, thickness of copper film:50 μm.

5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

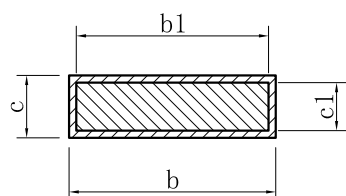
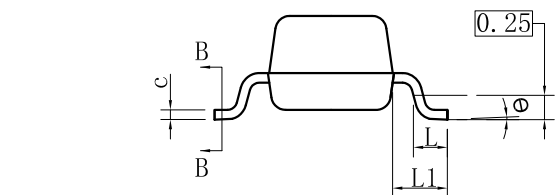
CHARACTERISTICS	Symbol	Min	Typ.	Max	Unit
Reverse Breakdown Voltage(Note 3) (IR = 100 μ A)	VBR	350	-	-	V
Forward voltage(Note 3) (IF =20mA) (IF =100mA) (IF =200mA)	VF	- - -	0.78 0.93 1.03	0.87 1 1.25	V
Reverse Current(Note 3) (VR=240V) (VR=240V,Tj=150°C)	IR	- -	30 35	100 100	nA μ A
Total Capacitance (f=1MHz,VR =0)	CT	-	1	5	pF
Reverse Recovery Time (IF=IR=30mA,Irr=3.0mA, RL =100 Ω)	Trr	-	-	50	nS

3. Short duration test pulse used to minimize self-heating effect.

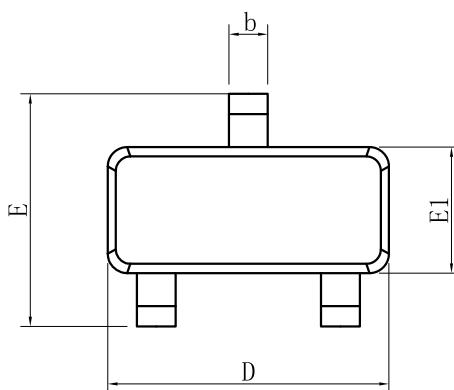
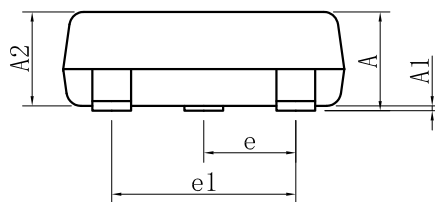
6.ELECTRICAL CHARACTERISTICS CURVES



7.OUTLINE AND DIMENSIONS



SECTION B-B

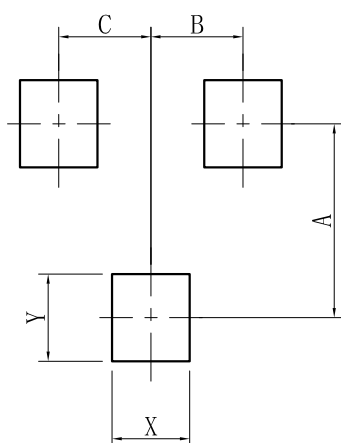


SOT23			
DIM	MIN	NOR	MAX
A	0.89	-	1.12
A1	0.01	-	0.10
A2	0.88	0.95	1.02
b	0.30	-	0.50
b1	0.30	0.40	0.45
c	0.08	-	0.20
c1	0.08	0.10	0.16
D	2.80	2.90	3.04
E	2.10	-	2.64
E1	1.20	1.30	1.40
e	0.95BSC		
e1	1.90BSC		
L	0.40	0.46	0.60
L1	0.54REF		
θ	0°	-	8°
All Dimensions in mm			

GENERAL NOTES

- 1.Top package surface finish $Ra0.4 \pm 0.2\mu m$
- 2.Bottom package surface finish $Ra0.7 \pm 0.2\mu m$
- 3.Side package surface finish $Ra0.4 \pm 0.2\mu m$

8.SOLDERING FOOTPRINT



SOT-23	
DIM	(mm)
X	0.80
Y	0.90
A	2.00
B	0.95
C	0.95

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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