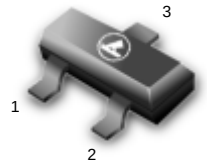
HIGH VOLTAGE SURFACE MOUNT SWITCHING DIODE

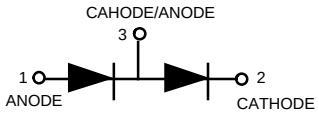
LMBD3004SLT1G



SOT –23

FETURE

- Fast Switching Speed
- High Conductance
- High Reverse Breakdown Voltage Rating
- We declare that the material of product compliance with RoHS requirements.



Ordering Information(Pb-free)

Device	Marking	Shipping
LMBD3004SLT1G	KAE	3000/Tape&Reel
LMBD3004SLT3G	KAE	10000/Tape&Reel

Maximum Ratings @ T_A=25℃ unless otherwise specified

Characteristic	Symbol	LMC10114L	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	350	V
Working Peak Reverse Voltage DC Blocking Voltage	V_{RWM} V_R	300	V
RMS Reverse Voltage	$V_{R(RMS)}$	212	V
Forward Continuous Current(Note 2)	I_F	225	mA
Peak Repetitive Forward Current(Note 2)	I_{FRM}	625	mA
Non-Repetitive Peak Forward Surge Current @t=1.0μs @t=1.0s	I_{FSM}	4.0 1.0	A
Power Dissipation(Note 2)	Pd	350	mW
Thermal Resistance Junction to Ambient Air(Note 2)	$R_{\theta JA}$	357	℃/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150	℃

Electrical Characteristics @ T_A=25℃ unless otherwise specified, per element

Characteristic	Symbol	Min	Typ	MAX	Unit	Test Condition
Reverse Breakdown Voltage(Note 1)	$V_{(BR)R}$	350			V	I_R=100μA
Forward Voltage(Note 1)	V_F		0.78 0.93 1.03	0.87 1.0 1.25	V	I_F=20mA I_F=100mA I_F=200mA
Reverse Current(Note 1)	I_R		30 35	100 100	nA μA	V_R=240V V_R=240V, T_j=150℃
Total Capacitance	C_T		1.0	5.0	Pf	V_R=0V, f=1.0MHZ
Reverse Recovery Time	Trr			50	ns	I_F=I_R=30mA Irr=3.0mA, R_L=100Ω

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

LMBD3004SLT1G

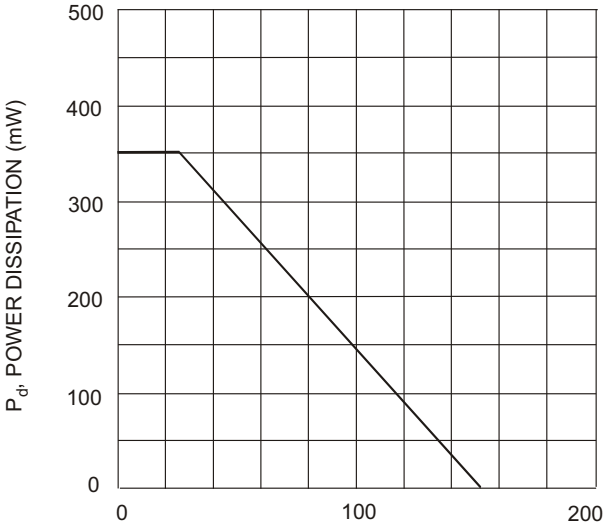


Fig. 1 Power Derating Curve, total package

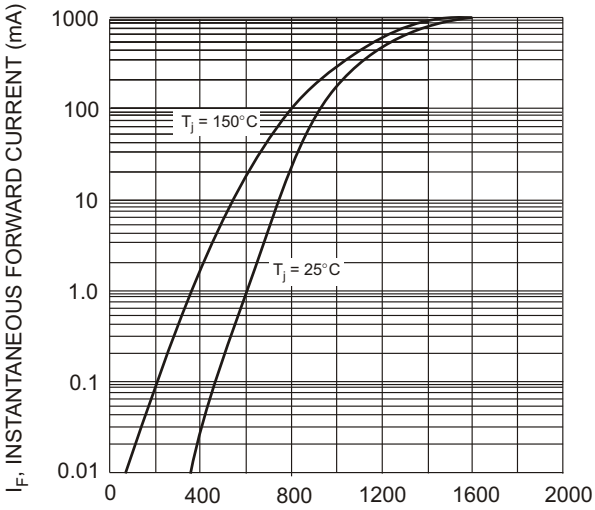


Fig. 2 Typical Forward Characteristics, per element

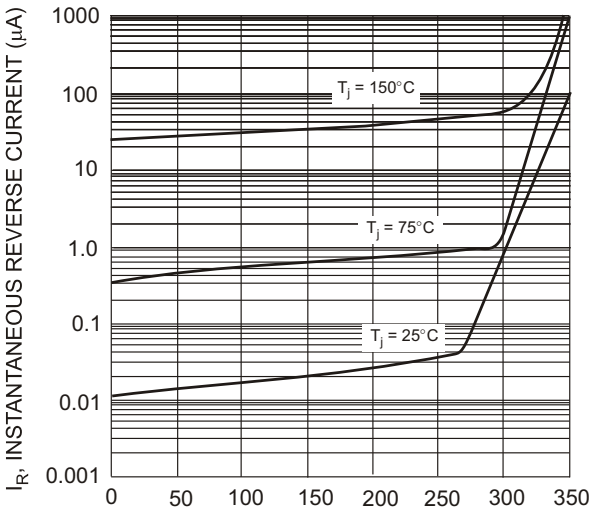


Fig. 3 Typical Reverse Characteristics, per element

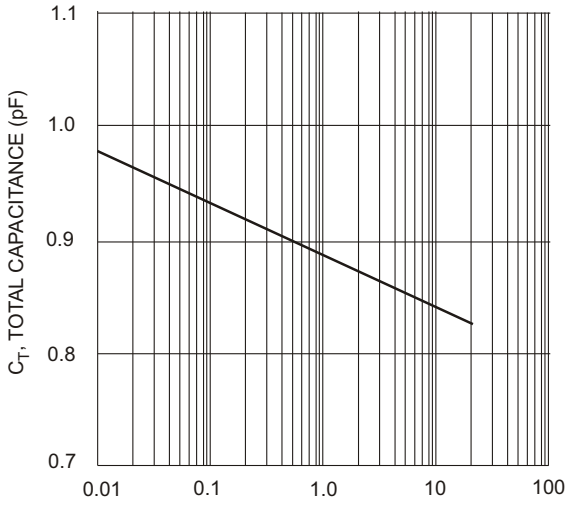
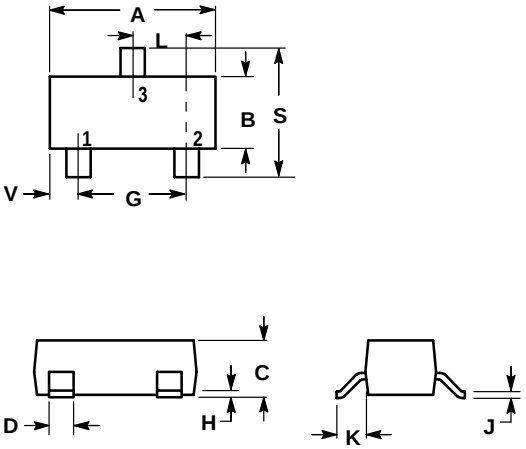


Fig. 4 Typical Total Capacitance vs. Reverse Voltage, per element

LMBD3004SLT1G

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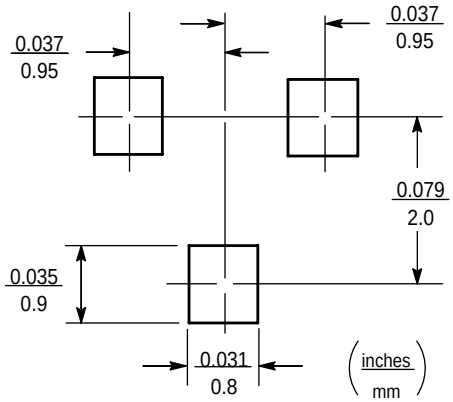


NOTES:

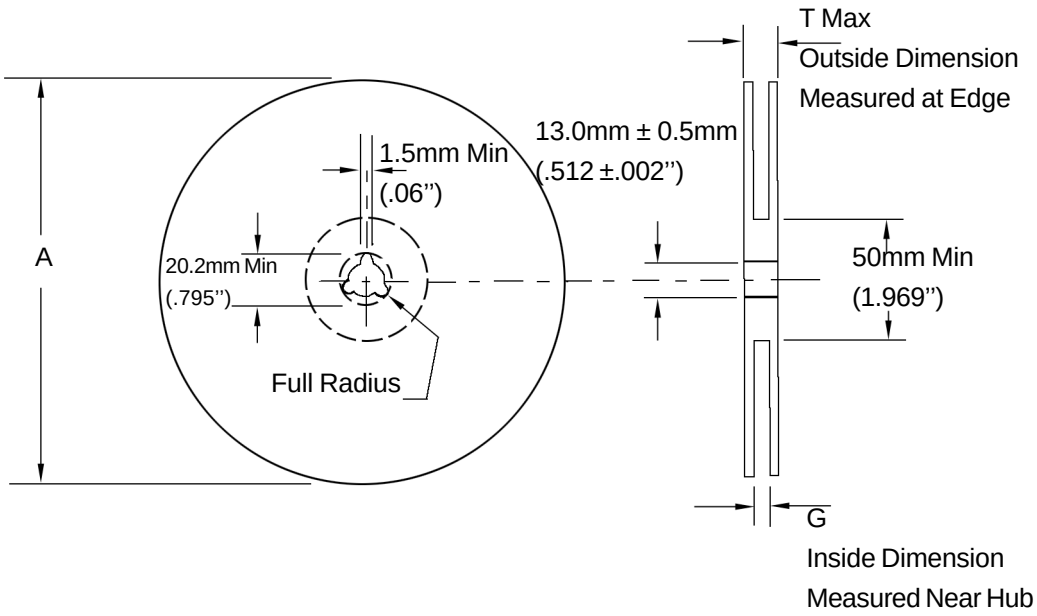
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M,1982
2. CONTROLLING DIMENSION: INCH.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.1102	0.1197	2.80	3.04
B	0.0472	0.0551	1.20	1.40
C	0.0350	0.0440	0.89	1.11
D	0.0150	0.0200	0.37	0.50
G	0.0701	0.0807	1.78	2.04
H	0.0005	0.0040	0.013	0.100
J	0.0034	0.0070	0.085	0.177
K	0.0140	0.0285	0.35	0.69
L	0.0350	0.0401	0.89	1.02
S	0.0830	0.1039	2.10	2.64
V	0.0177	0.0236	0.45	0.60

PIN 1. BASE
2. EMITTER
3. COLLECTOR



EMBOSSED TAPE AND REEL DATA
FOR DISCRETES



Size	A Max	G	T Max
8 mm	330mm (12.992")	8.4mm+1.5mm, -0.0 (.33"+.059", -0.00)	14.4mm (.56")

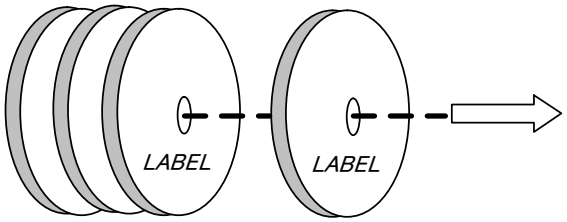
Reel Dimensions

Metric Dimensions Govern — English are in parentheses for reference only

Storage Conditions

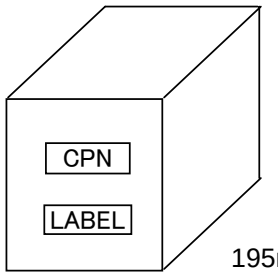
Temperature: 5 to 40 Deg.C (20 to 30 Deg. C is preferred)
Humidity: 30 to 80 RH (40 to 60 is preferred)
Recommended Period: One year after manufacturing
(This recommended period is for the soldering condition only. The characteristics and reliabilities of the products are not restricted to this limitation)

Shipment Specification



10 Reel

3000PCS/Reel
8000PCS/Reel (SOT-723,SOD-723)



Dim(Unit:mm)

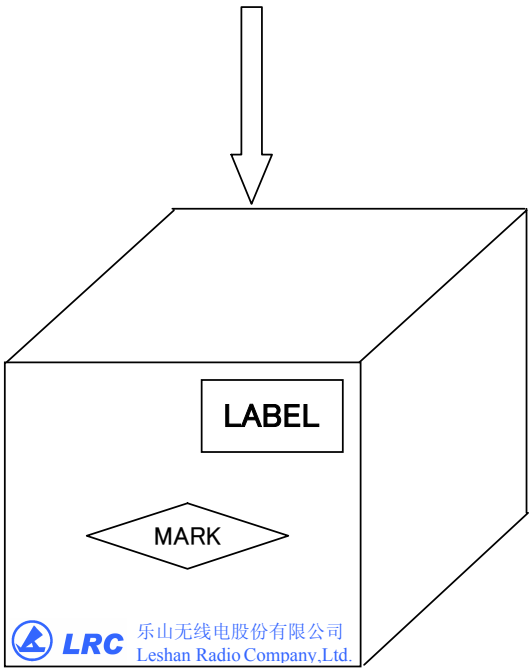
195mm*195mm*150mm

10Reel/Inner Box

30KPCS/Inner Box
80KPCS/Inner Box (SOT-723,SOD-723)

Dim(Unit:mm)

460mm*400mm*420mm



12 Inner Box/Carton

360KPCS/Carton
960KPCS/Carton (SOT-723,SOD-723)