

## Small-Signal Switching Diode

- Silicon Epitaxial Planar Diode
- Fast switching Diode;  
especially suited for applications requiring high  
voltage capability

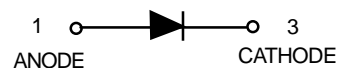
**LSD2004LT1**



**SOT- 23**

### DEVICE MARKING

LSD2004LT1=DB5

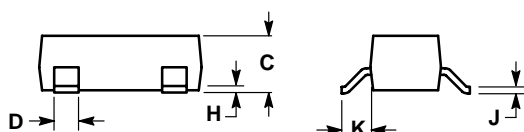
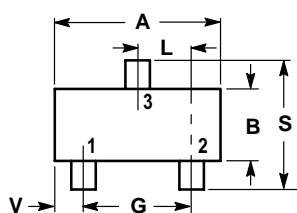


### MAXIMUM RATINGS AND THERMAL CHARACTERISTICS

Characteristic	Symbol	MIN	Max	Unit
Continuous Reverse Voltage	$V_R$	240		V
Reverse Breakdown Voltage ( $I_R = 100\mu A$ )	$V_{(BR)}$	300		V
Reverse Voltage Leakage Current ( $V_R = 240V$ )	$I_R$		100	nA
( $V_R = 240V, T_j = 150^\circ C$ )	$I_R$		100	$\mu A$
Forward Voltage ( $I_F = 20 mA$ )	$V_F$		870	mV
( $I_F = 100 mA$ )	$V_F$		1000	mV
Reverse Recovery Time ( $I_F = 30 mA, I_{rr} = 3.0 mA$ )	$T_{rr}$		50	ns
Capacitance ( $V_F = V_R = 0, F = 1MHz$ )	C		5.0	pF
Forward Current (continuous)	$I_F$		225	mA

**LSD2004LT1**
**SOT-23**
**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

