

### 1. Part information

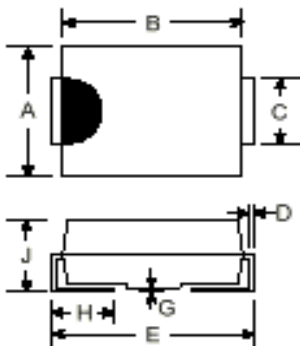
Part Number:	<b>B130LBT-01</b>	Issue date:	3/10/00
Description:	Special $I_{FSM}$ , $I_R$ , $R_{\theta JL}$ , $P_D$ . Dimensions A,E,H	Series No.:	1227
Outline:	SMB	Cust. code.:	P746A
Marking:	Cathode band + LT logo + D/C + B13LB	Cust. dwg#:	371S0015
Package:	Tape/Reel	Rev. Level:	E

### 2. Electrical characteristics

Specifications at 25°C ambient temperature unless otherwise specified.

Parameter		Test Condition	Min.	Max.	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$		30		V
Maximum RMS Voltage	$V_{RSM}$		21		V
Maximum DC Blocking Voltage	$V_{DC}$		30		V
Maximum Power Dissipation	$P_D$		0.62		W
Maximum Average Forward Rectified Current	$I_{(AV)}$	$T_T=120^\circ\text{C}$ 5 mm <sup>2</sup> copper land areas	1.0		A
Peak Forward Surge Current	$I_{FSM}$	8.3ms Single Half Sine-wave Superimposed on Rated Load	40		A
Instantaneous Forward Voltage	$V_F$	$I_F=1.0\text{A}$		0.395	V
		$I_F=2.0\text{A}$		0.445	V
DC Reverse Current	$I_R$	$V_R=30\text{V}$ @ $T_A=25^\circ\text{C}$ @ $T_A=100^\circ\text{C}$		0.200	mA
				10	mA
Maximum Thermal Resistance	$R_{\theta JL}$	Junction to terminal	12		$^\circ\text{C/W}$
Junction Capacitance	$C_J$	$V_R=4.0\text{V}$ / 1MHz	90		PF
Operating Temperature Range	$T_J$		-65 to +125		$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$		-65 to +125		$^\circ\text{C}$

### 3. Mechanical Outline



SMB		
Dim	Min	Max
A	3.30	3.81
B	4.06	4.57
C	1.96	2.21
D	0.15	0.31
E	5.21	5.59
G	0.10	0.20
H	0.76	1.27
J	2.00	2.62
All Dimensions in mm		