SPECIAL CUSTOMER
PARTS SPECIFICATION SHEET

1. Part information

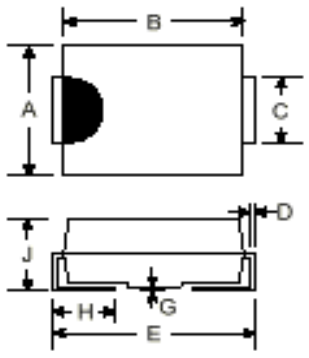
Part Number:	**B130LBT-01**	Issue date:	3/10/00
Description:	Special I_{FSM}, I_R, $R\theta_{JL}$, P_D, Dimensions A,E,H	Series No.:	1227
Outline:	SMB	Cust. code.:	P746A
Marking:	Cathode band + LT logo + D/C + B13LB	Cust. dwg#:	371S0015
Package:	Tape/Reel	Rev. Level:	E

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°C 5 mm^2 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=1.0A I_F=2.0A		0.395 0.445	V V
DC Reverse Current	I_R	V_R=30V @ T_A=25°C @T_A=100°C		0.200 10	mA mA
Maximum Thermal Resistance	$R\theta_{JL}$	Junction to terminal	12		°C/W
Junction Capacitance	C_J	V_R=4.0V / 1MHz	90		PF
Operating Temperature Range	T_J		-65 to +125		°C
Storage Temperature Range	T_{STG}		-65 to +125		°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		