

1. Part information

Part Number:	B130BT-01	Issue date:	2/9/01
Description:	Special I_R , $R_{\theta JL}$	Series No.:	SCS-1230
Outline:	SMB	Cust. code.:	P746A
Marking:	Cathode band + DII logo + D/C + B130B	Cust. dwg#:	371-5354-A
Package:	Tape/Reel	Rev. Level:	B

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 Average Forward Rectified Current	$I_{(AV)}$	$T_T=130^{\circ}\text{C}$ 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	30		A
Instantaneous Forward Voltage	V_F	$I_F=1.0\text{A}$		0.50	V
DC Reverse Current	I_R	$V_R=30\text{V}$ @ $T_A=25^{\circ}\text{C}$ @ $T_A=100^{\circ}\text{C}$		0.10 12.0	mA mA
Typical Thermal Resistance	$R_{\theta JL}$	Junction to terminal	12		°C/W
Junction Capacitance	C_J	$V_R=4.0\text{V}$ / 1MHz	110		pF
Operating Temperature Range	T_J		-65 to +150		°C
Storage Temperature Range	T_{STG}		-65 to +150		°C