

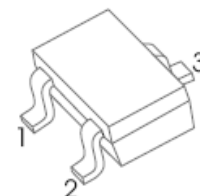
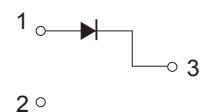


1SS370 SWITCHING DIODE

FEATURES

- High voltage, high speed switching applications
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance

MAKING: F5



SOT-323

Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Peak reverse voltage	V_{RM}	250	V
DC reverse voltage	V_R	200	V
Peak forward current	I_{FM}	300	mA
Mean rectifying current	I_o	100	mA
Non-Repetitive Peak Forward Surge current @t=8.3ms	I_{FSM}	2.0	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55~+150	°C

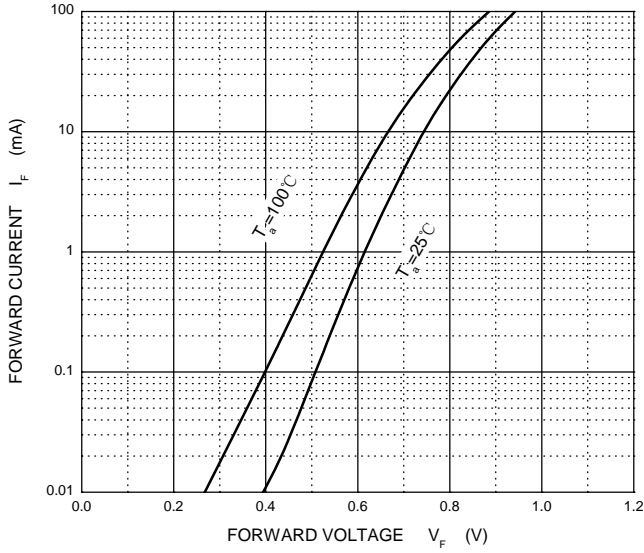
Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F			1	V	$I_F=10mA$
				1.2	V	$I_F=100mA$
Reverse current	I_R			0.1	μA	$V_R=50V$
				1	μA	$V_R=200V$
Capacitance between terminals	C_T			3.0	pF	$V_R=0, f=1MHZ$
Reverse recovery time	t_{rr}		60		ns	$V_R=6V, I_F=10mA, I_{rr}=0.1 \cdot I_R$

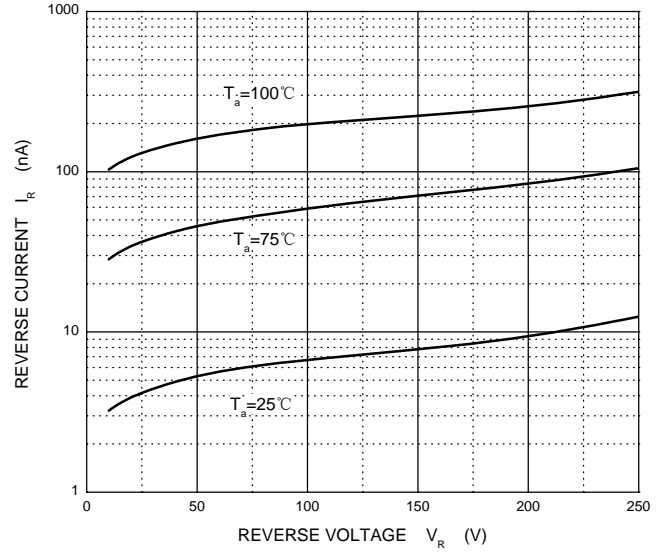


Typical Characteristics

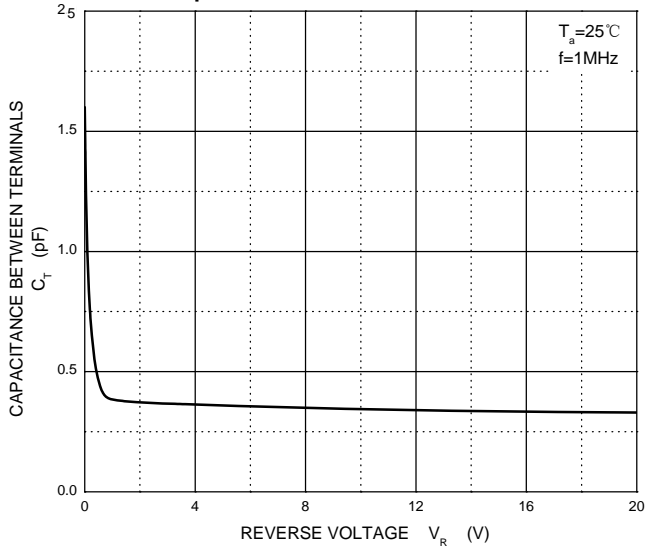
Forward Characteristics



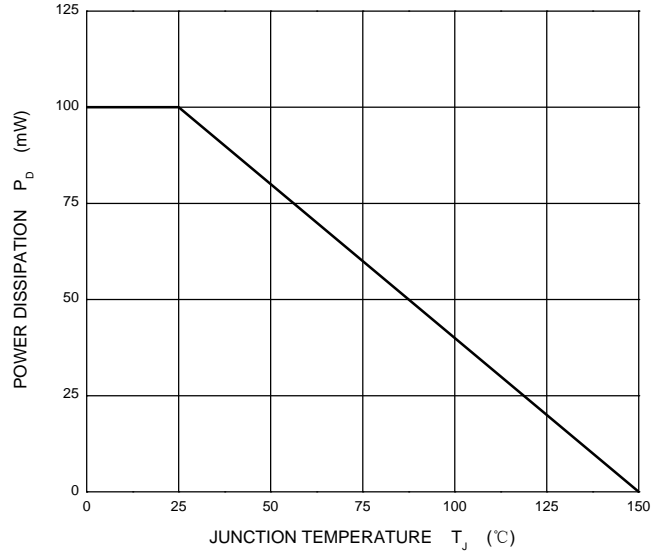
Reverse Characteristics



Capacitance Characteristics Per Diode

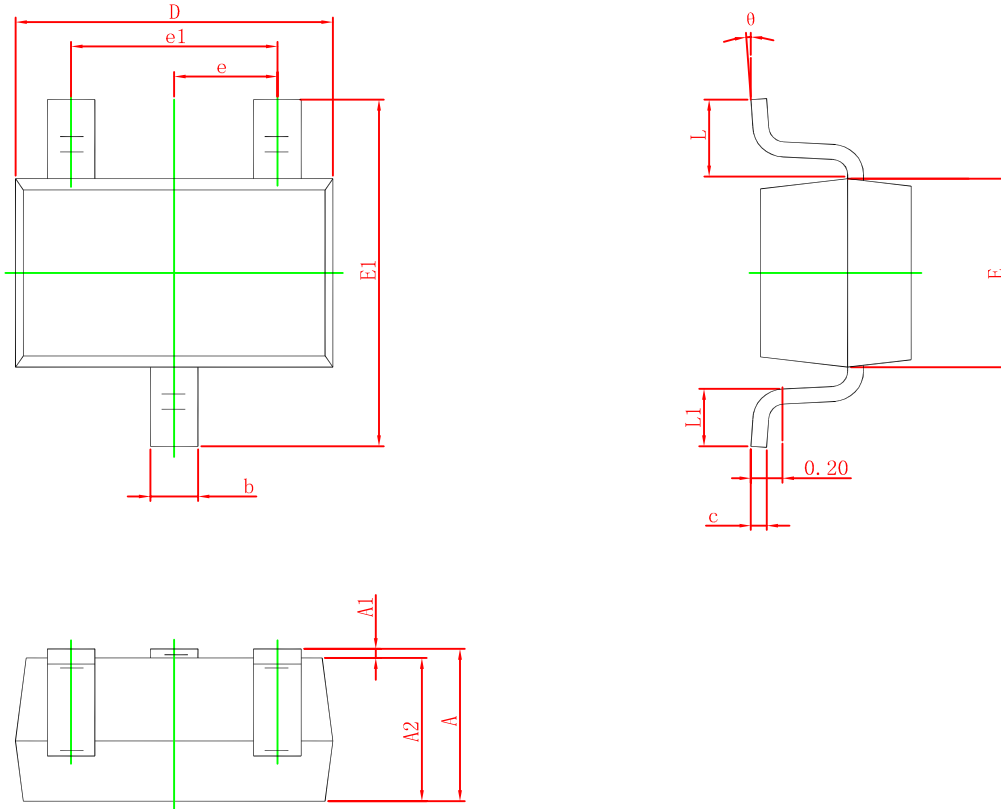


Power Derating Curve





SOT-323 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP.		0.026 TYP.	
e1	1.200	1.400	0.047	0.055
L	0.525 REF.		0.021 REF.	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°