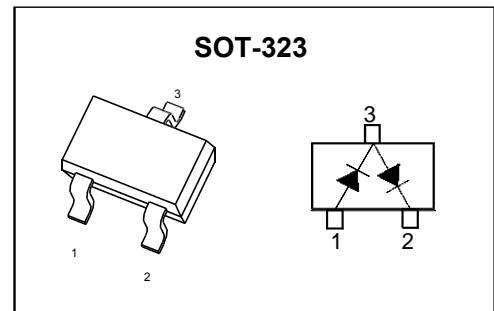


FEATURES

- For high-speed switching applications
- Connected in series



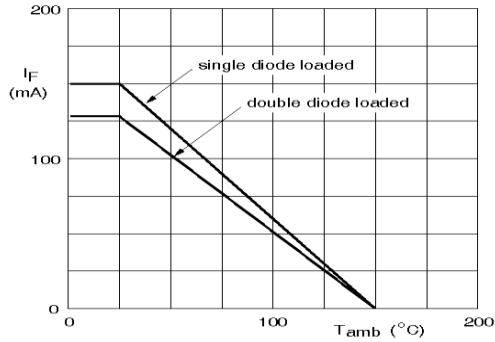
Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	85	V
Reverse Voltage	V _R	75	V
Continuous Forward Current	I _F	150	mA
Single Diode Load Double Diode Load		130	
Repetitive Peak Forward Current	I _{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	at t = 1 μs	4
		at t = 1 ms	1
		at t = 1 s	0.5
Total Power Dissipation	P _{tot}	200	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	625	°C/W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

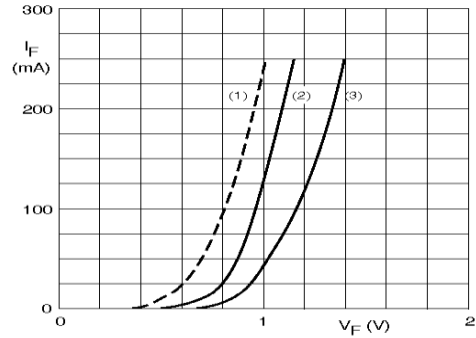
Parameter	Symbol	Max.	Unit
Forward Voltage at I _F = 1 mA at I _F = 10 mA at I _F = 50 mA at I _F = 150 mA	V _F	0.715	V
		0.855	
		1	
		1.25	
Reverse Current at V _R = 25 V at V _R = 75 V at V _R = 25 V, T _j = 150 °C at V _R = 75 V, T _j = 150 °C	I _R	30	nA
		1	μA
		30	μA
		50	μA
Diode Capacitance at V _R = 0, f = 1 MHz	C _d	1.5	pF
Reverse Recovery Time at I _F = I _R = 10 mA, I _{rr} = 0.1 X I _R , R _L = 100 Ω	t _{rr}	4	ns

Typical Characteristics



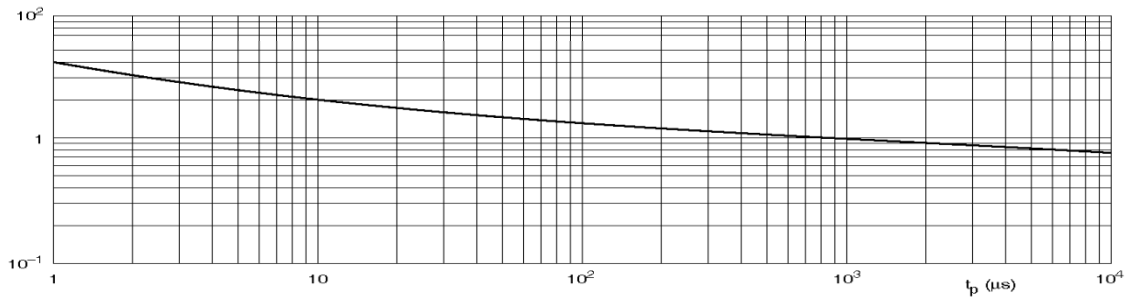
Device mounted on an FR4 printed-circuit board.

Maximum permissible continuous forward current as a function of ambient temperature.



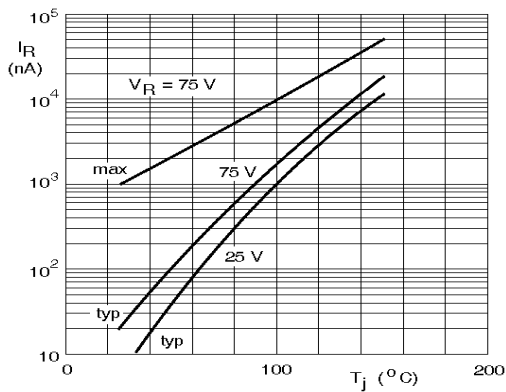
- (1) $T_j = 150$ °C; typical values.
- (2) $T_j = 25$ °C; typical values.
- (3) $T_j = 25$ °C; maximum values.

Forward current as a function of forward voltage.

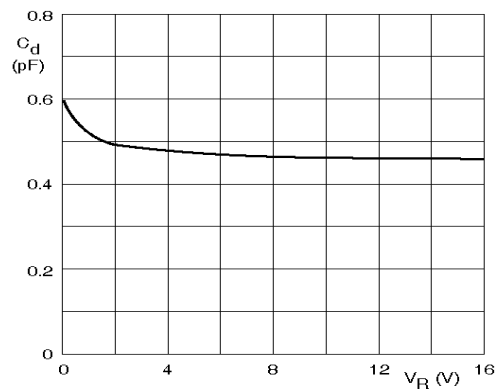


Based on square wave currents.
 $T_j = 25$ °C prior to surge.

Maximum permissible non-repetitive peak forward current as a function of pulse duration.



Reverse current as a function of junction temperature.



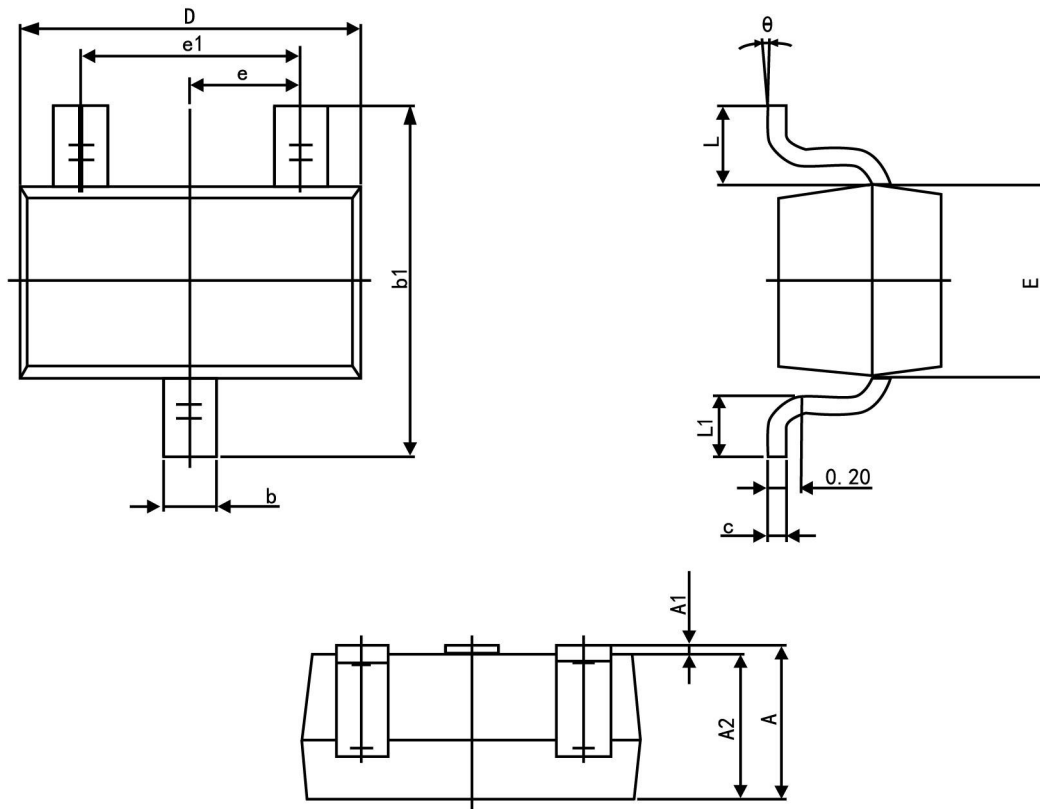
$f = 1$ MHz; $T_j = 25$ °C.

Diode capacitance as a function of reverse voltage; typical values.

PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-323



Symbol	Dimension in Millimeters	
	Min	Max
A	0.900	1.100
A1	0.000	0.100
A2	0.900	1.000
b	0.200	0.400
c	0.080	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.450
e	0.650 TYP.	
e1	1.200	1.400
L	0.525 REF.	
L1	0.260	0.460
θ	0°	8°

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