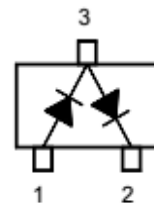
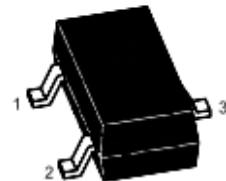


## Switching Diode

### Features

- For surface mount applications
- Fast reverse recovery time
- Ideal for automated placement

SOT-23

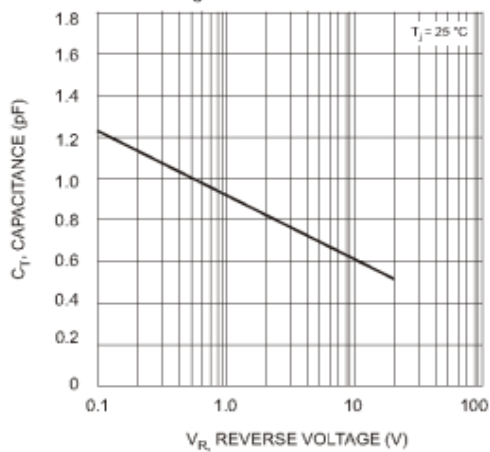
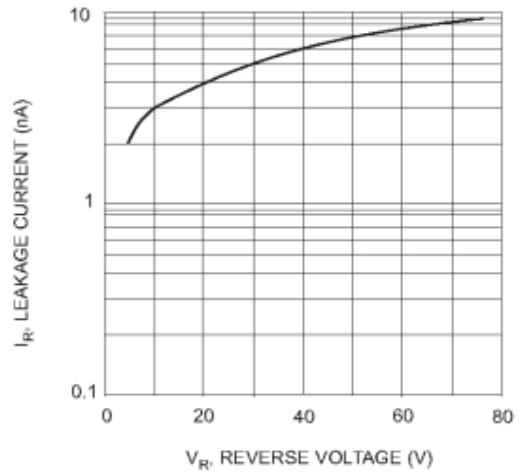
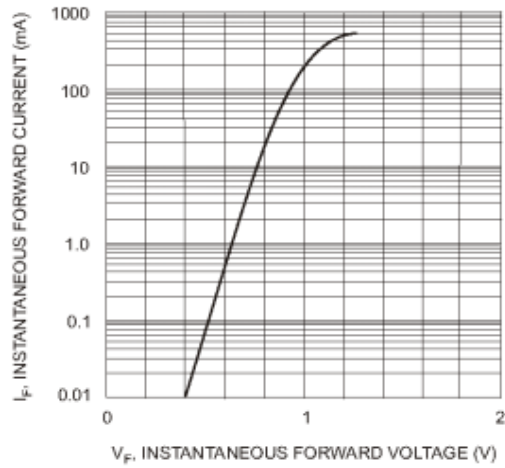


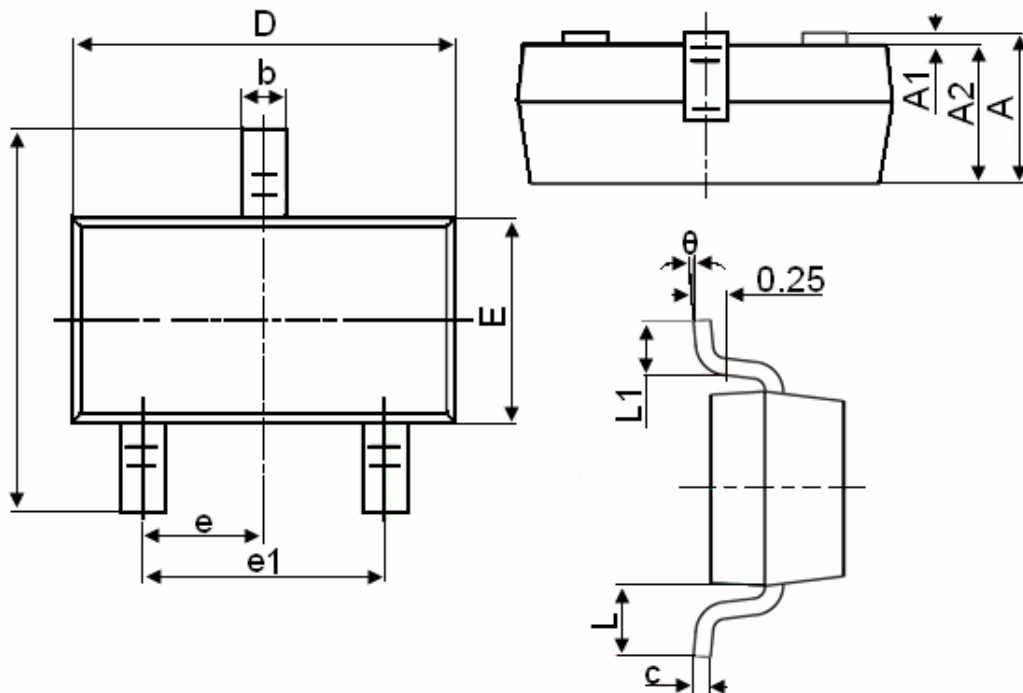
### Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	85	V
Continuous reverse voltage	$V_R$	75	V
Continuous forward current (double diode load)	$I_F$	125	mA
Continuous forward current (single diode load)	$I_F$	215	mA
Repetitive Peak Forward Current	$I_{FRM}$	450	mA
Peak Forward Surge Current at	$I_{FSM}$	$t = 1s$ 0.5	A
$t = 1ms$		1	
$t = \mu s$		4.5	
Repetitive Peak Forward Current	$I_{FRM}$		V
Forward Voltage at $I_F = 1\text{ mA}$	$V_F$	0.715	V
$I_F = 10\text{ mA}$		0.855	
$I_F = 50\text{ mA}$		1	
$I_F = 150\text{ mA}$		1.25	
Reverse Current at $V_R = 25\text{ V}$	$I_R$	30	nA
$V_R = 75\text{ V}$		1	$\mu A$
$V_R = 25\text{ V}, T_J = 150^\circ C$		30	$\mu A$
$V_R = 75\text{ V}, T_J = 150^\circ C$		50	$\mu A$
Typical Junction Capacitance $V_R = 4V, f = 1MHz$	$C_J$	1.5	pF
Power Dissipation	$P_D$	350	mW
Maximum Reverse Recovery Time	$T_{rr}$	4	nS
Junction Temperature	$T_J$	150	$^\circ C$
Storage Temperature Range	$T_{STG}$	-65 to +150	$^\circ C$

## Electrical Characteristics Curves



**SOT-23 Package Information**


Symbol	Dimensions in Millimeters	
	MIN.	MAX.
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
$\theta$	0°	8°