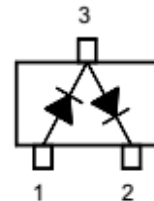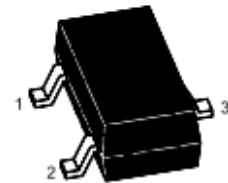# Switching Diode

Features

- For surface mount applications

- Fast reverse recovery time

- Ideal for automated placement

SOT-23

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ 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 t= 1s t=1ms t= μs	I_{FSM}	0.5 1 4.5	A
Repetitive Peak Forward Current	I_{FRM}		V
Forwad Voltage at I_F=1 mA I_F=10 mA I_F=50 mA I_F=150 mA	V_F	0.715 0.855 1 1.25	V
Reverse Currunt at V_R=25 V V_R=75 V V_R=25 V, T_J=150℃ V_R=75 V, T_J=150℃	I_R	30 1 30 50	nA μA μA μA
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	℃
Storage Temperature Range	T_{STG}	-65 to +150	℃

Electrical Characteristics Curves
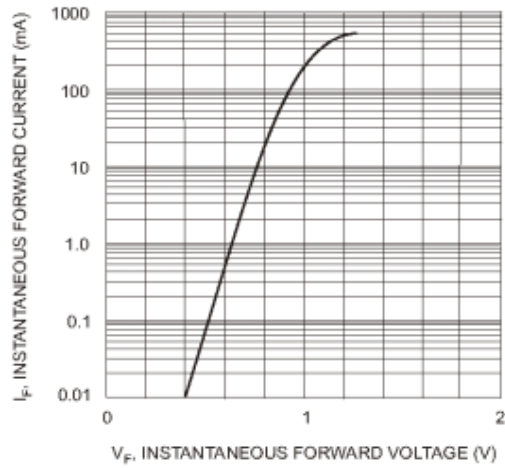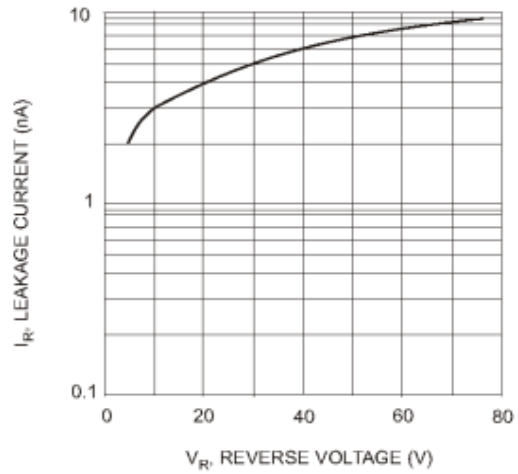

Fig. 1 Forward Characteristics
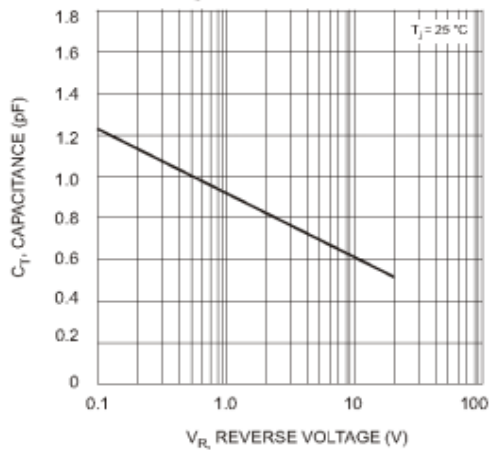

Fig. 2 Typical Leakage Current vs Reverse Voltage

Fig. 3 Typical Total Capacitance vs Reverse Voltage

SOT-23 Package Information
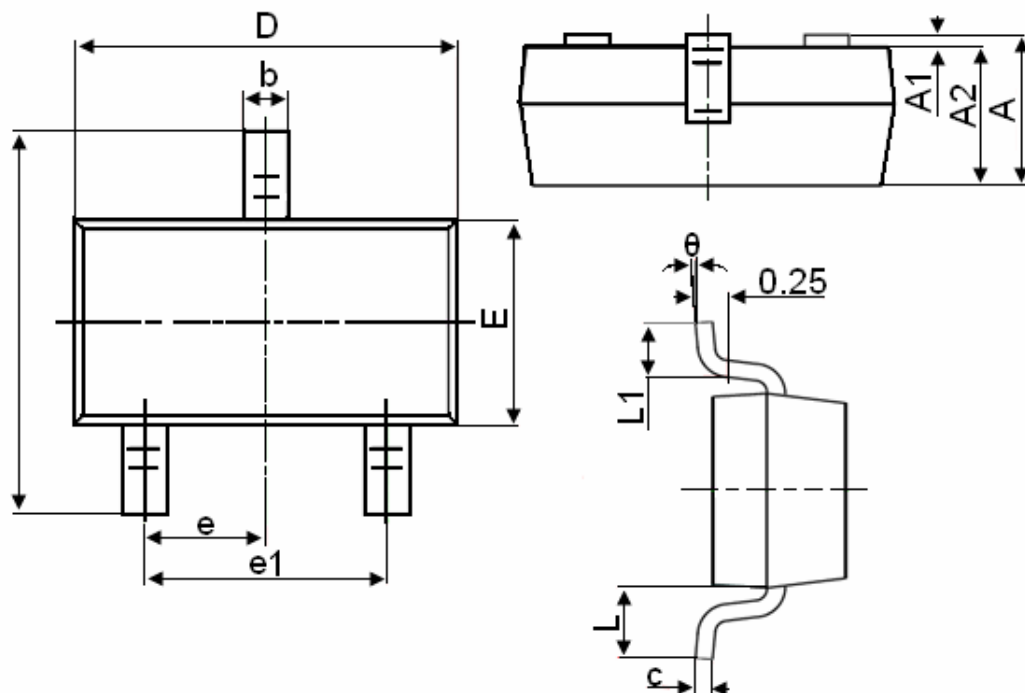
Symbol	Dimensions in Millimeters	
	MIN.	MAX.
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching *category:*

Click to view products by SLKORMICRO *manufacturer:*

Other Similar products are found below :

MCL4151-TR3 MMBD3004S-13-F RD0306T-H RD0506LS-SB-1H RGP30G-E373 DSE010-TR-E BAQ333-TR BAQ335-TR BAQ33-GS18 BAS1602VH6327XT BAV17-TR BAV19-TR BAV301-TR BAW27-TAP HSC285TRF-E NSVBAV23CLT1G NTE525 1SS181-TP 1SS184-TP 1SS193,LF 1SS193-TP 1SS400CST2RA SBAV99LT3G SDAA13 LL4448-GS18 SHN2D02FUTW1T1G LS4150GS18 LS4151GS08 SMMBD7000LT3G FC903-TR-E 1N4449 1N4934-E3/73 1SS226-TP APT100DL60HJ RFUH20TB3S RGP30G-E354 RGP30M-E3/73 D291S45T MCL4151-TR BAS 16-02V H6327 BAS 21U E6327 BAS 28 E6327 BAS33-TAP BAS 70-02V H6327 BAV300-TR BAV303-TR3 BAW27-TR BAW56DWQ-7-F BAW56M3T5G BAW75-TAP