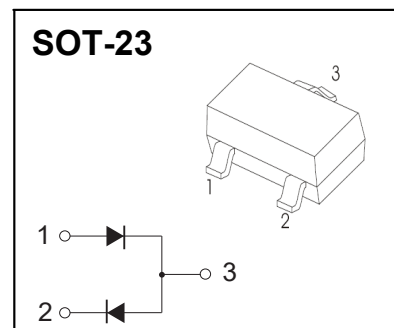
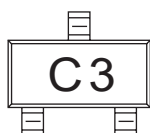


## SOT-23 Plastic-Encapsulate Diodes

**1SS226** SWITCHING DIODE

**FEATURES**

- Low forward voltage
- Fast reverse recovery time
- Small total capacitance

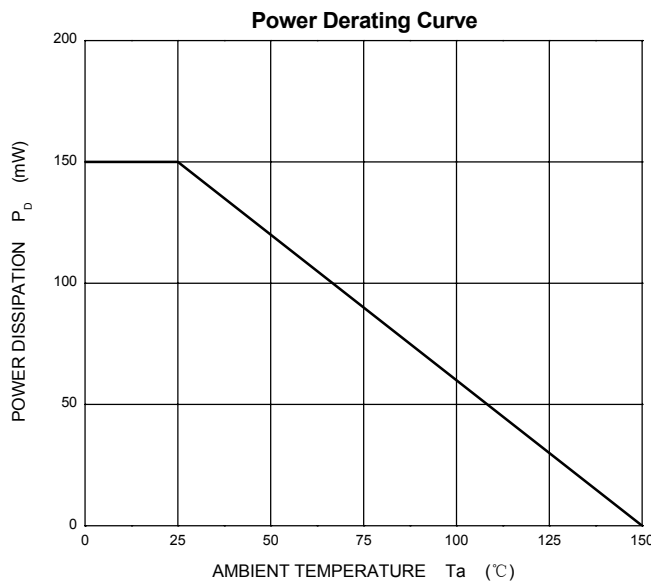
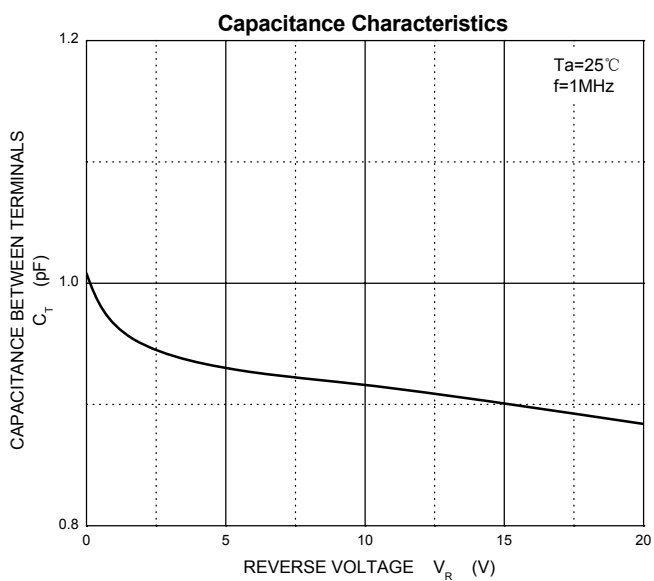
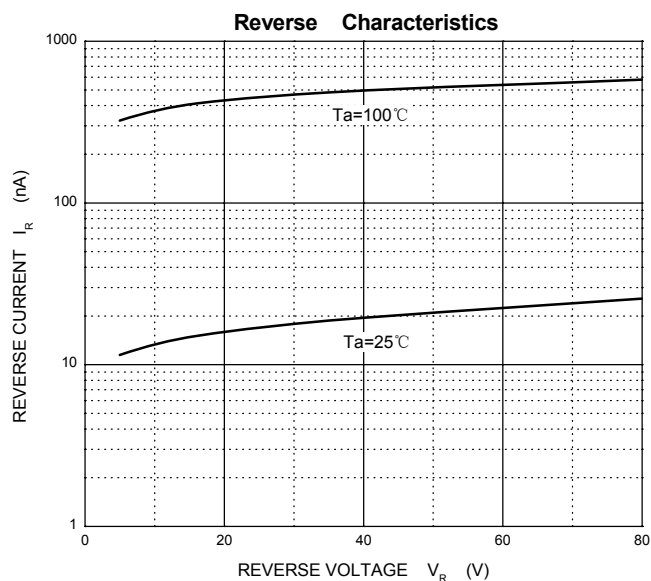
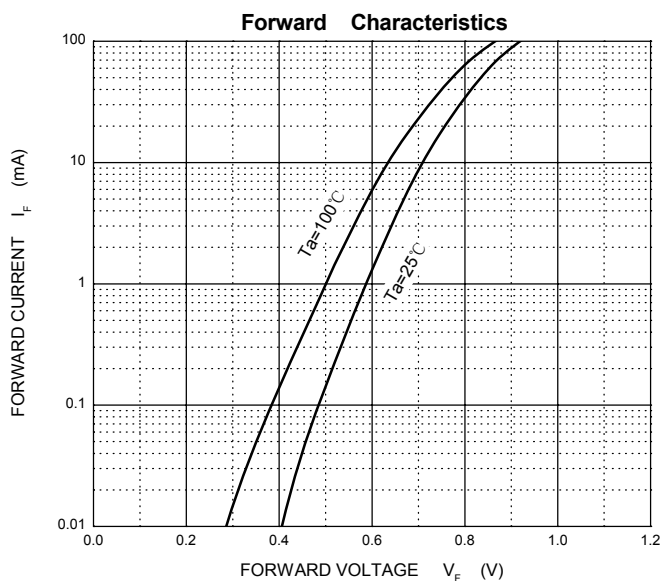
**Marking: C3**

**Maximum Ratings @Ta=25°C**

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	85	V
DC Blocking Voltage	$V_R$	80	V
Forward Continuous Current	$I_{FM}$	300	mA
Average Rectified Output Current	$I_O$	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	$I_{FSM}$	2.0	A
Power Dissipation	$P_D$	150	mW
Operation Junction and Storage Temperature Range	$T_J, T_{STG}$	-55~+150	°C

**ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)**

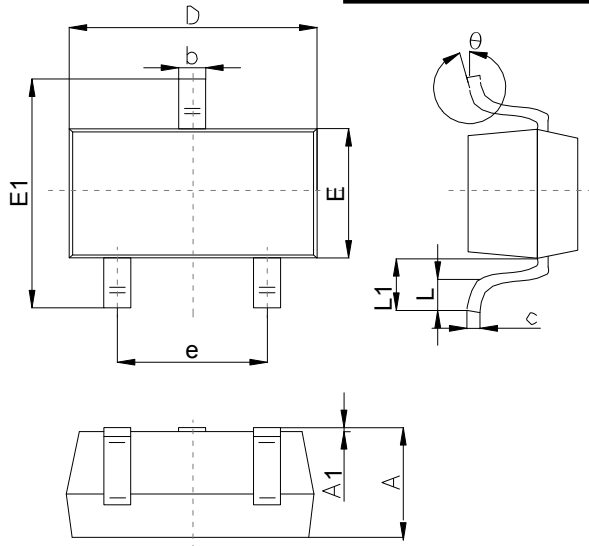
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 100\mu A$	80		V
Reverse voltage leakage current	$I_R$	$V_R = 80V$		0.5	$\mu A$
Forward voltage	$V_F$	$I_F = 100mA$		1.2	V
Diode capacitance	$C_D$	$V_R = 0, f = 1MHz$		3	pF
Reverse recovery time	$t_{rr}$	$I_F = I_R = 10mA$		4	ns

Typical Characteristics



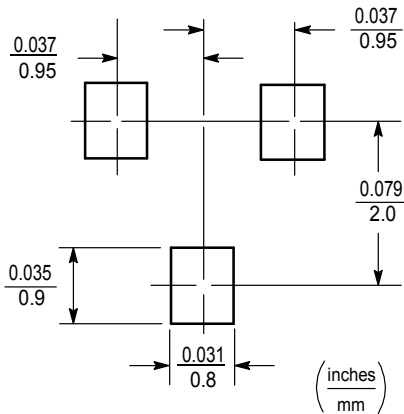
**Outlitne Drawing**

**SOT-23 Package Outline Dimensions**



Symbol	Dimensions In Millimeters		
	Min	Typ	Max
A	0.65		1.40
A1	0.00		0.20
b	0.30		0.55
c	0.08		0.20
D	2.70		3.10
E	1.15		1.65
E1	2.10		2.80
e	1.70		2.10
L	0.15		0.50
L1	0.35		0.70
θ	0°		12°

**Suggested Pad Layout**



- Note:
1. Controlling dimension:in/millimeters.
  2. General tolerance: ±0.05mm.
  3. The pad layout is for reference purposes only.

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