



Micro Commercial Components



Micro Commercial Components  
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1SS226

## Features

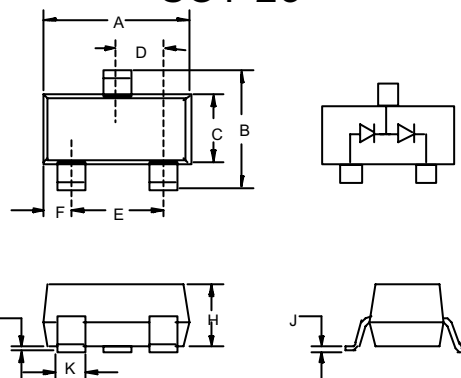
- Halogen free available upon request by adding suffix "-HF"
- Low Current Leakage.
- Surface Mount SOT-23 Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

## Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- 150mW Power dissipation.
- Marking:C3

## 150mW SWITCHING DIODE

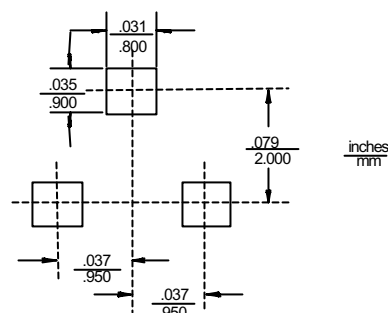
### SOT-23



#### DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

#### Suggested Solder Pad Layout



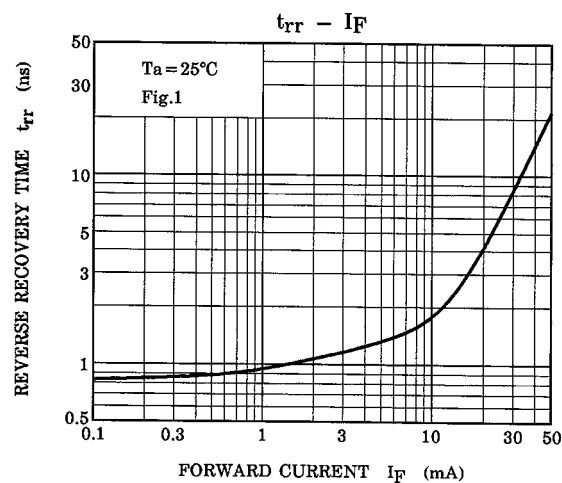
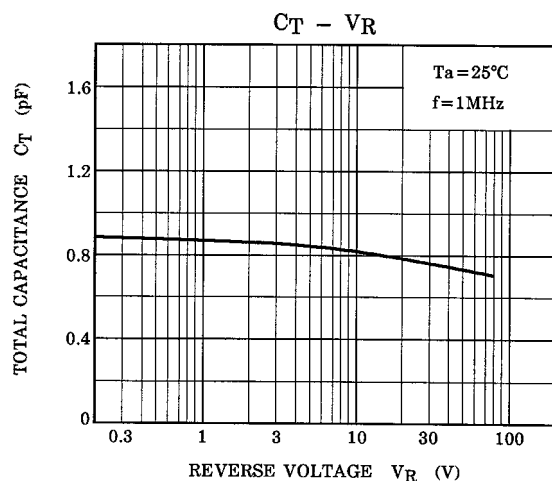
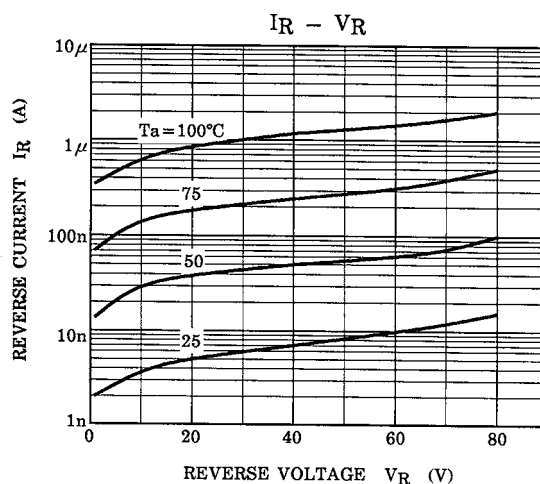
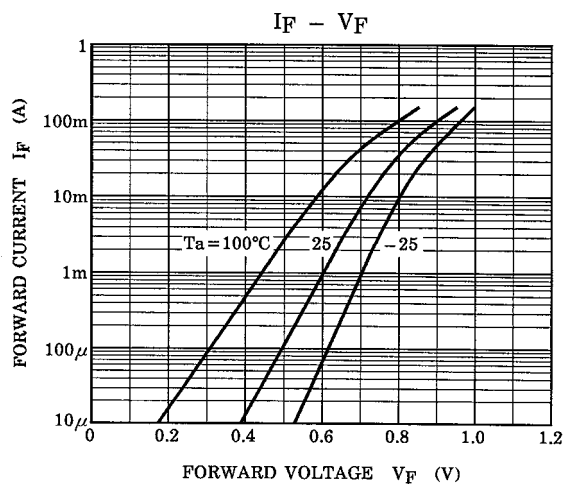
## Maximum Ratings

Reverse Breakdown Voltage	$V_R$	80V
Average Forward Current	$I_o$	100mA
Maximum Forward Current	$I_{FM}$	300mA
Total Power Dissipation @ $T_A = 25^\circ\text{C}$	$P_D$	150mW
Storage Temperature Range	$T_{stg}$	-55°C to 150°C
Junction Temperature	$T_j$	125°C

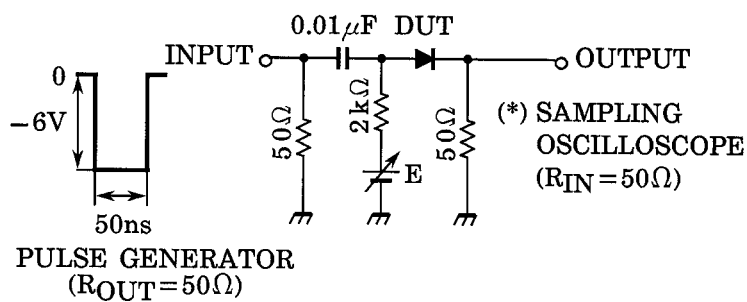
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Ratings	Symbol	Max.	Notes
Forward Voltage at $I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=100\text{mA}$		715mV 855mV 1200mV	
Reverse Current	$I_R$	25nA 0.5uA	$V_R=20\text{V}$ $V_R = 80\text{V}$
Reverse Breakdown Voltage	$V_{(BR)}$	80V(min)	$I_R=100 \text{ uA}$
Capacitance	$C_J$	3pF	Measured at 1.0MHz, $V_R=0\text{V}$
Reverse Recovery Time	$t_{rr}$	4ns	

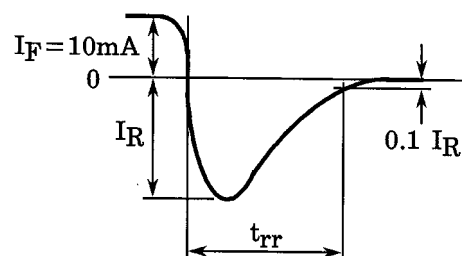
# 1SS226



## INPUT WAVEFORM



## OUTPUT WAVEFORM



## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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