



Micro Commercial Components



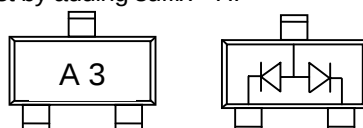
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1SS181

Features

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

Pin Configuration
Top View



Maximum Ratings

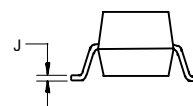
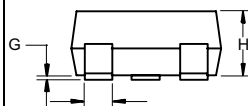
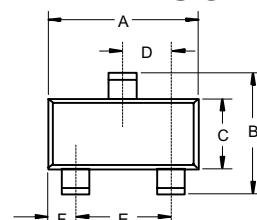
Reverse Voltage	V_R	80V
Forward Current	I_F	100mA
Surge Current (10ms)	I_{FSM}	2.0A
Power Dissipation @ $T_A=25^\circ\text{C}$	P_D	150mW
Storage Temperature Range	T_{stg}	-55°C to $+150^\circ\text{C}$
Junction Temperature	T_j	150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Minimum Reverse Breakdown Voltage	$V_{(BR)}$	80V	$I_R=100\mu\text{A}$ $T_A = 25^\circ\text{C}$
Maximum Forward Voltage	V_F	1.2V	$I_F = 100\text{mA};$ $T_A = 25^\circ\text{C}$
Maximum Reverse Voltage Leakage Current	I_R	0.5 μA	$V_R=80\text{Volts}$ $T_A = 25^\circ\text{C}$
Maximum Diode Capacitance	C_D	4.0pF	Measured at $f=1.0\text{MHz}, V_R=0$
Maximum Reverse Recovery Time	t_{rr}	4.0ns	$I_F = 10\text{mA}$

150mW High Speed Switching Diodes 80 Volt

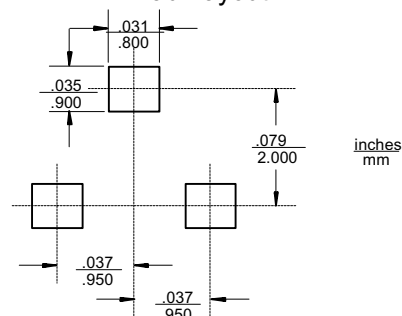
SOT-23



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



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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