WEITRON

1SS181/1SS184/1SS187
1SS190/1SS193/1SS196/1SS226

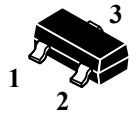
Surface Mount Switching Diodes

Lead(Pb)-Free

SWITCHING DIODE
100m AMPERES
80 VOLTS

Features:

* Fast Switching Speed
* Surface Mount Package Ideally Suited for Automatic Insertion
* High Conductance
* For General Purpose Switching Applications



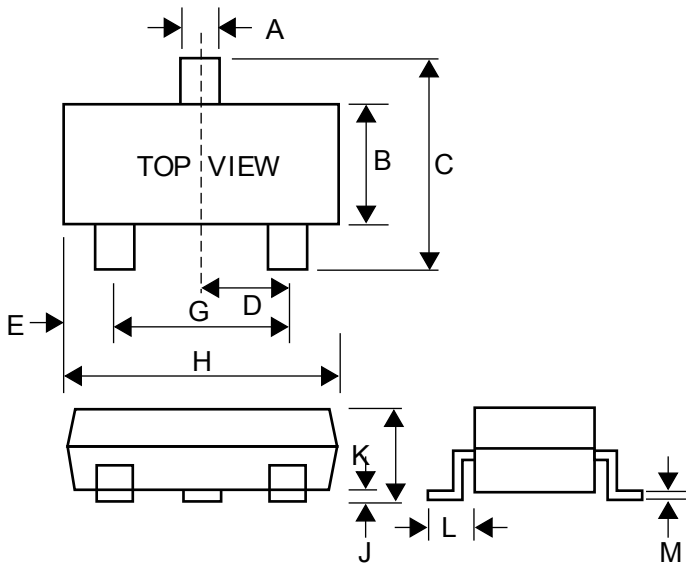
SOT-23

Mechanical Data:

* Case: SOT-23, Molded Plastic
* Terminals: Solderable per MIL-STD-202, Method 208
* Polarity: See diagram
* Weight: 0.008 grams

SOT-23 Outline Dimensions

Unit:mm



Dim	Min	Max
A	0.35	0.51
B	1.19	1.40
C	2.10	3.00
D	0.85	1.05
E	0.46	1.00
G	1.70	2.10
H	2.70	3.10
J	0.01	0.13
K	0.89	1.10
L	0.30	0.61
M	0.076	0.25

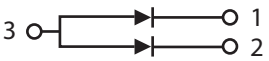
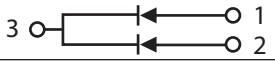
Maximum Ratings (T_J=125°C Unless otherwise noted)

Characteristic	Symbol	Value	Unit
Reverse Voltage	V_R	80	V
Forward Current	I_F	100	mA
Power Dissipation	P_D	150	mW
Operating Junction Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{stg}	-55 to +150	°C

Electrical Characteristics (T_J=125°C Unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage I_R=100μA	$V_{(BR)}$	80	-	V
Forward Voltage I_F=100mA	V_F	-	1.2	V
Reverse Leakage V_R=80V	I_R	-	0.5	μA
Total Capacitance V_R=0V, f=1.0MHz	C_D	-	4.0	pF
Reverse Recover Time	T_{rr}	-	4	nS

Device Marking

Item	Marking	Eqivalent Circuit diagram
1SS181	A3	
1SS184	B3	
1SS187	D3	
1SS190	E3	
1SS193	F3	
1SS196	G3	
1SS226	C3