

Surface Mount Switching Diodes

(Pb) Lead(Pb)-Free

Features:

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

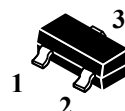
Mechanical Data:

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

SWITCHING DIODE

100m AMPERES

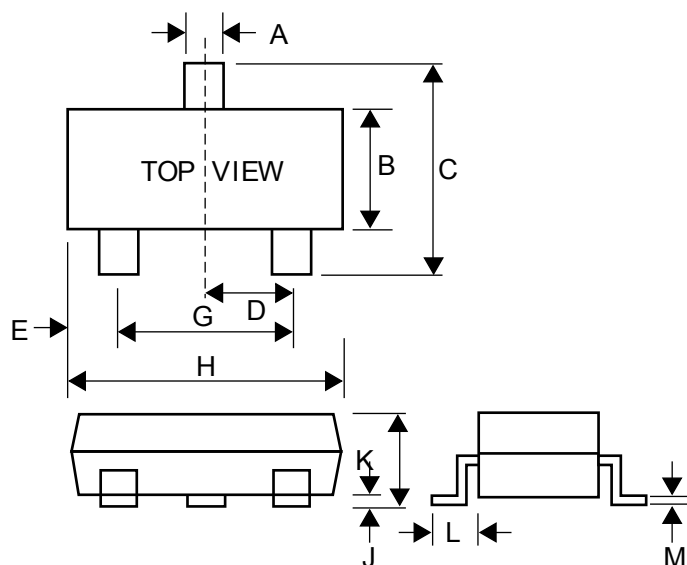
80 VOLTS



SOT-23

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

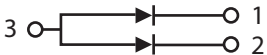
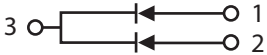
Maximum Ratings (T_J=125°C Unless otherwise noted)

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