

Surface Mount Switching Diode

 Lead(Pb)-Free

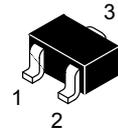
Features:

- * High Voltage, High Speed Switching Applications
- * Low Forward Voltage : $V_F = 0.9V$
- * Fast Reverse Recovery time : $t_{rr} = 60nS$
- * Small Total Capacitance : $C_T = 1.5pF$

SWITCHING DIODE

100m AMPERES

200 VOLTS

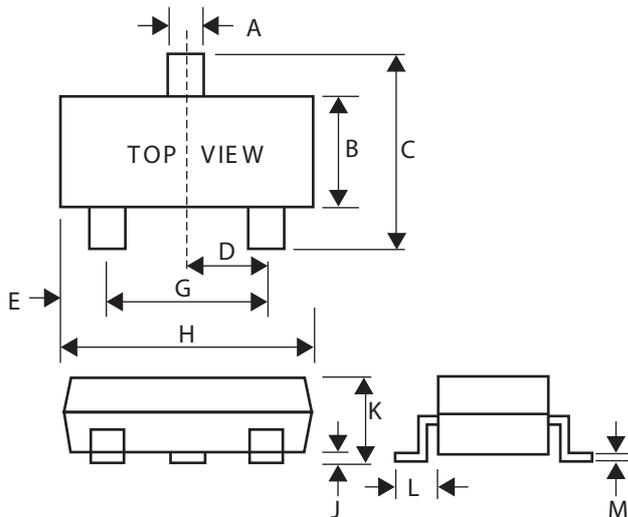


1. Anode
2. N.C.
3. Cathode

SOT-323

SOT-323 Outline Demensions

Unit:mm



SOT-323

Dim	Min	Max
A	0.30	0.40
B	1.15	1.35
C	2.00	2.40
D	-	0.65
E	0.30	0.40
G	1.20	1.40
H	1.80	2.20
J	0.00	0.10
K	0.80	1.00
L	0.42	0.53
M	0.10	0.25

MAXIMUM RATING (T_A=25°C)

Characteristics	Symbol	Value	Unit
Peak Reverse Voltage	V _{RM}	250	V
Continuous Reverse Voltage	V _R	200	V
Average Rectified Forward Current	I _O	100	mA
Peak Forward Current	I _{FM}	300	mA
Peak Forward Surge Current @10mS	I _{FSM}	2.0	A
Junction Temperature	T _j	125	°C
Storage Temperature	T _{stg}	-55 to+125	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

Characteristics	Symbol	Min	Typ	Max	Unit
Maximum Instantaneous Forward Voltage I _F =10mA I _F =100mA	V _F	-	-	1.0 1.2	V
Maximum Instantaneous Reverse Current V _R =50V V _R =200V	I _R	-	-	0.1 1.0	μA
Capacitance Between terminals V _R =0V, f=1MHz	C _T	-	-	3.0	pF
Reverse Recovery Time V _R =6V, I _F =10mA, I _{rr} = 0.1 x I _R	t _{rr}	-	-	60	nS

Device Marking

Item	Marking
1SS370	F5

Electrical Characteristic Curves (TA=25°C Unless Specified Otherwise)

Fig.1 Reverse Recovery Time (t_{rr}) Test Circuit

Marking

