

Surface Mount Switching Diode

(Pb) Lead(Pb)-Free

Features:

- *High Speed (trr =1.2ns Typ.)
- *Small surface mounting type.
- *Small Outline Surface Mount SOD-323 Package
- *High reliability with high surge current handling capability.

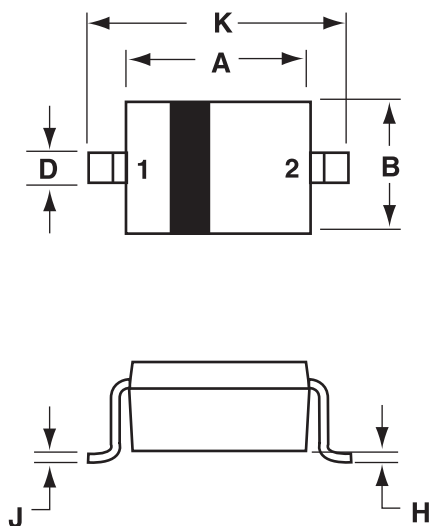
SWITCHING DIODE
100m AMPERES
90VOLTS



SOD-323

SOD -323 Outline Dimensions

Unit:mm



Dim	MILLMETERS	
	Min	Max
A	1.60	1.80
B	1.15	1.35
C	0.80	1.00
D	0.25	0.40
E	0.15REF	
H	0.00	0.10
J	0.089	0.177
K	2.30	2.70

PIN 1.CATHODE
2.ANODE


MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	90	V
DC reverse voltage	V_R	80	V
Peak forward current	I_{FM}	225	mA
Mean rectifying current	I_O	100	mA
Surge current (1s)	I_{surge}	500	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Parameter Symbol	Symbol	Min.	Typ.	Max.	Unit
Forward voltage($I_F=100mA$)	V_F	-	-	1.2	V
Reverse current($V_R=80V$)	I_R	-	-	0.1	μA
Capacitance between terminals ($V_R=0.5V$, $f=1MHz$)	C_T	-	-	3	pF
Reverse recovery time($V_R=6V$, $I_F=10mA$, $R_L=100\ \Omega$)	t_{rr}	-	-	4	ns

Device Marking

Item	Marking	Equivalent Circuitdiagram
1SS355	5D	

ELECTRICAL CHARACTERISTICS CURVES

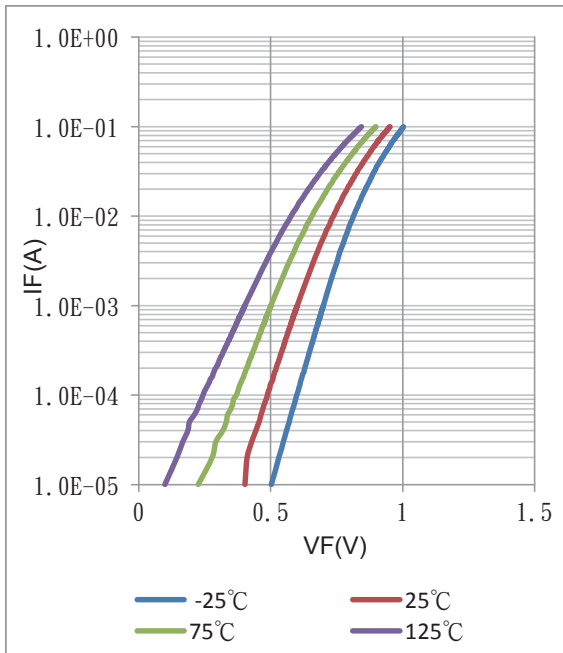


FIG. 1 Forward Characteristics

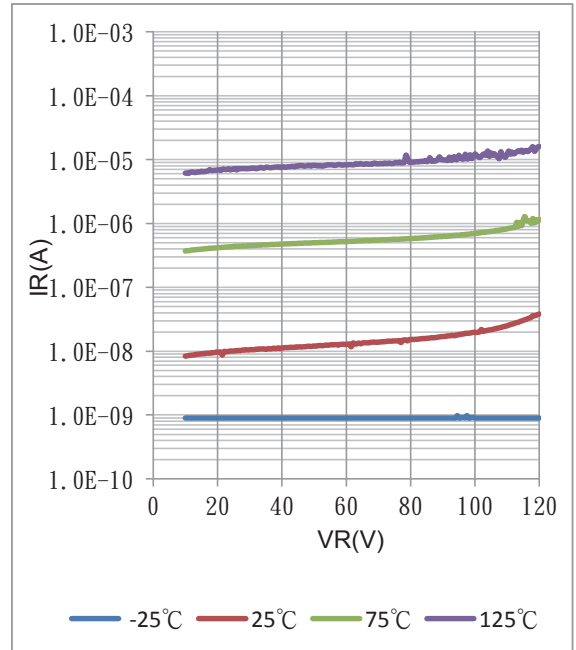


FIG. 2 Reverse Characteristics

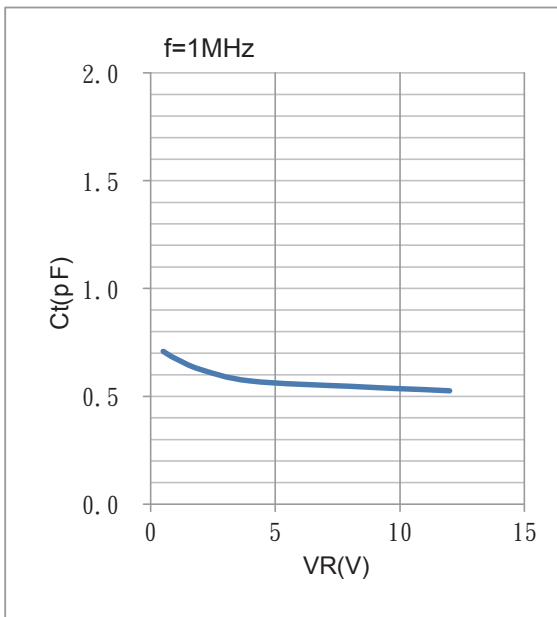


FIG. 3 Capacitance