CHINA BASE
INTERNATIONAL

SOD-523

1SS355WT

www.china-base.com.hk

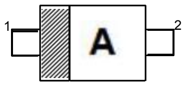
Silicon Epitaxial Planar Switching

Features

- Small plastic package suitable for surface mounted design
- High reliability with high surge current handling capability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "A"
Simplified outline SOD-523 and symbol

Applications

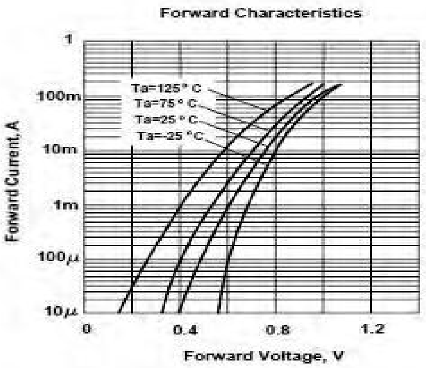
- High speed switching

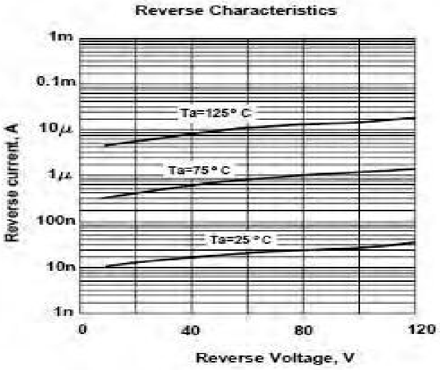
Absolute Maximum Ratings (T_a = 25 °C)

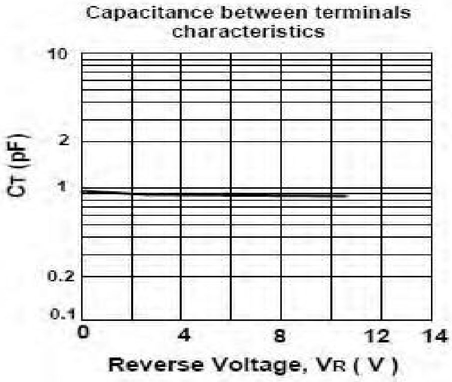
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	90	V
Reverse Voltage	V_R	80	V
Average Rectified Forward Current	$I_{F(AV)}$	100	mA
Peak Forward Current	I_{FM}	225	mA
Surge Forward Current (1 s)	I_{FSM}	500	mA
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

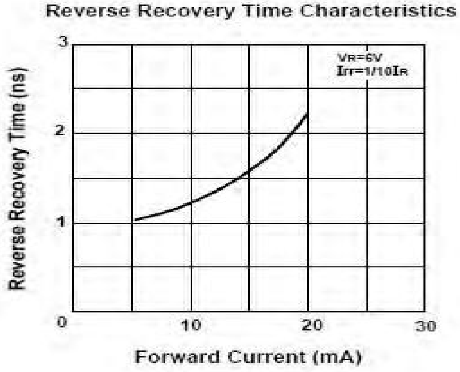
Electrical Characteristics (T_a = 25 °C)

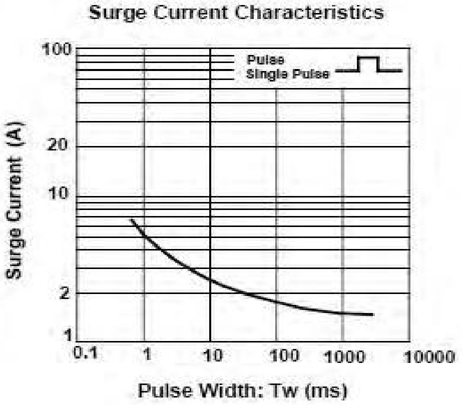
Parameter	Symbol	Max.	Unit
Forward Voltage at I_F = 100 mA	V_F	1.2	V
Reverse Current at V_R = 80 V	I_R	0.1	µA
Capacitance between Terminals at V_R = 0.5 V, f = 1 MHz	C_T	3	pF
Reverse Recovery Time at V_R = 6 V, I_F = 10 mA, R_L = 100 Ω	t_{rr}	4	ns

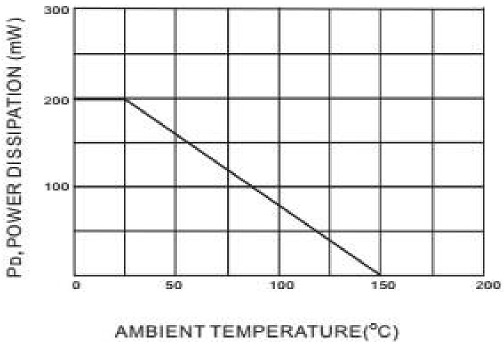

Forward Characteristics


Reverse Characteristics


Capacitance between terminals characteristics


Reverse Recovery Time Characteristics


Surge Current Characteristics



Reverse Recovery Time Measurement Circuit