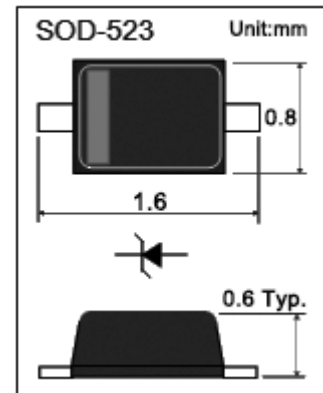


1SS400

- ◇ Fast switching devices
- ◇ **SOD523** Micro SMD package
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking
- ◇ Surface Mount Package Ideally Suited for Automatic Insertion
- ◇ For General Purpose Switching Applications
- ◇ High Conductance

Device Marking Code	
1SS400	A



Maximum Ratings ($T_a = 25^\circ\text{C}$)

Symbol	Parameter	Value	Units
VR	DC Reverse Voltage	80	V
V_{RM}	Peak Reverse Voltage	90	V
I_{FM}	Forward Continuous Current	225	mA
I_o	Average Rectified Output Current	100	mA
I_{surge}	Surge Current(1s)	500	mA
P_{ToT}	Total Power Dissipation	150	mW
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{STG}	Storage Temperature	-55 to +150	$^\circ\text{C}$

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Symbol	Parameter	Conditions	Min	Max	Units
V_F	Forward Voltage	$I_F = 100\text{mA}$ (25°C)		1.2	V
I_R	Reverse current	$V_R = 80\text{V}$ (25°C)		0.1	μA
C_T	Capacitance	$V_R = 0.5\text{V}$, $f = 1\text{MHz}$		3.0	pF
t_{rr}	Reverse Recovery Time	$I_F = I_R = 10\text{mA}$, $I_{RR} = 1\text{mA}$, $R_L = 100\Omega$		4	ns

Characteristics Curves

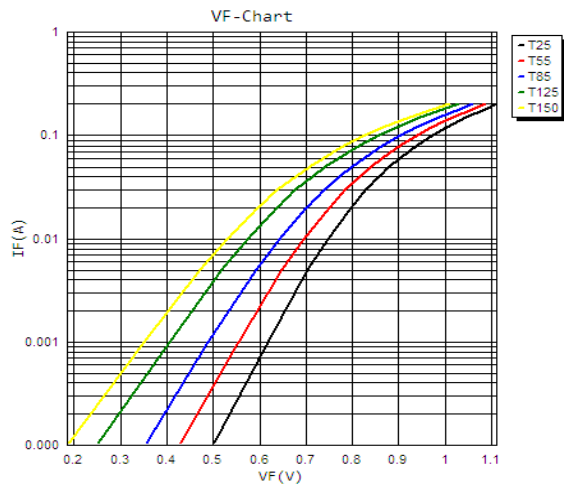


Fig.2 Forward current(I_F) vs Forward voltage(V_F)

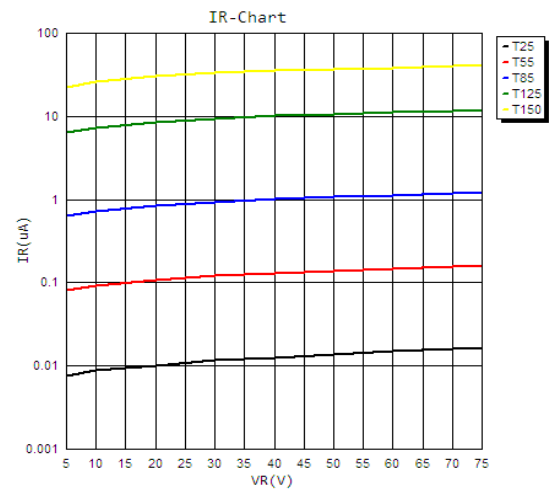


Fig.3 Reverse current(I_R) vs Reverse voltage(V_R)

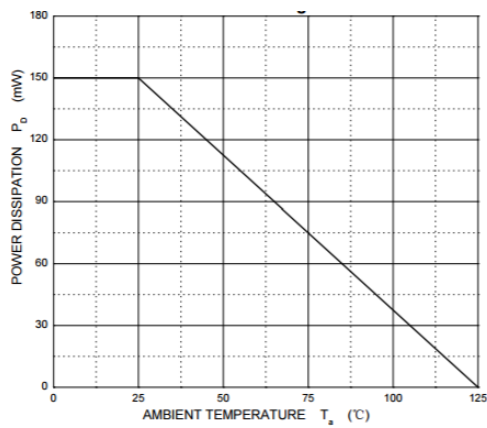


Fig.4 Power Derating Curve

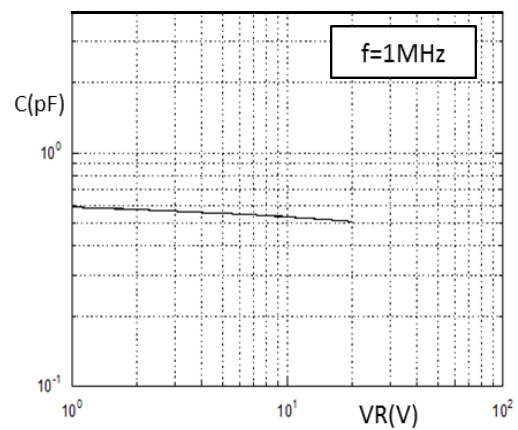


Fig.5 Capacitance vs Reverse voltage(V_R)

1SS400

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
1SS400	SOD523	Tape & Reel 8000pcs /7" Reel	8 mm	4 mm	Conductive	

Package Dimensions

