

SOD-523 Plastic-Encapsulate Diodes

1SS400

High Speed Switching Diode

SOD-523

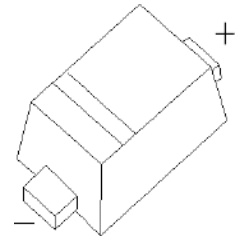
Features

- LHigh speed
- High reliability with high surge current handing capability

MARKING:A



The marking bar indicates the cathode



Absolute Maximum Ratings at Ta=25 °C

PARAMETER	SYMBOLS	1SS400	UNITS
Non-repetitive peak reverse voltage	V_{RM}	90	V
DC Blocking Voltage	V_R	80	V
Forward Continuous Current	I_{FM}	225	mA
Average Rectified Output Current	I_o	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.0	A
Power Dissipation	P_D	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	833	°C/W
Operation Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	°C

Characteristics at Ta= 25 °C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F			1.2	V	$I_F=100mA$
Reverse current	I_R			0.1	μA	$V_R=80V$
Capacitance between terminals	C_T			3.0	pF	$V_R=0.5V, f=1MHz$
Reverse recovery time	t_{rr}			4	ns	$V_R=6V, I_F=10mA, R_L=100 \Omega$

Typical Characteristics

