

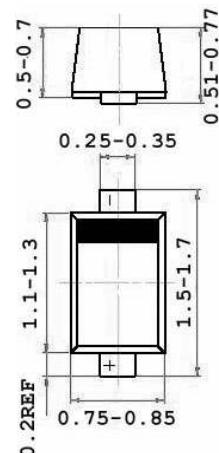
SWITCHING DIODE

VOLTAGE RANGE: 45 VOLTS

CURRENT: 100mA

FEATURES

- Small Package
- Low Forward Voltage: $V_{F3} = 0.54$ (typ)
- Low Reverse Current: $I_R = 5\mu A$ (typ)

SOD-523

UNIT:mm

MARKING: S3**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameters	Symbols	Limits	UNITS
Peak Reverse Voltage	V_{RM}	45	V
DC Reverse Voltage	V_R	40	V
Peak Forward Current	I_{FM}	300	mA
Average Forward Current	I_O	100	mA
Surge Current (10ms)	I_{surge}	1000	mA
Power Dissipation	P_D	150	mW
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55~+125	°C
Operating Temperature Range	T_{OPR}	-40~+100	°C

ELECTRICAL RATINGS

Parameters	Symbols	Test conditions	Min.	Typ.	Max.	UNITS
Forward Voltage	V_{F1}	$I_F=1mA$		0.28		V
	V_{F2}	$I_F=10mA$		0.36		V
	V_{F3}	$I_F=50mA$		0.54	0.60	V
Reverse Current	I_R	$V_R=10V$			5	μA
Total Capacitance	C_T	$V_R=0V, f=1MHz$		18	25	pF

www.s-manuals.com