SWITCHING DIODE

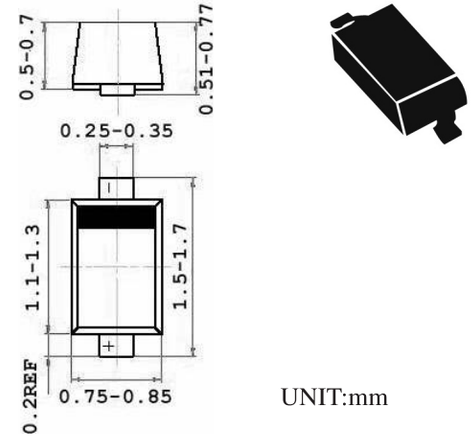
VOLTAGE RANGE: 45 VOLTS
CURRENT: 100mA

FEATURES

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

MARKING: S3

SOD-523



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ 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	℃
Storage Temperature	T_{STG}	-55~+125	℃
Operating Temperature Range	T_{OPR}	-40~+100	℃

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