

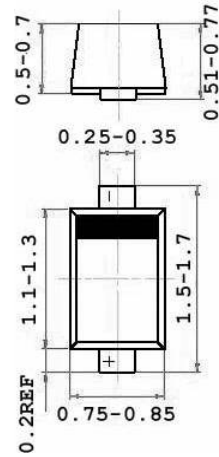
SWITCHING DIODE

VOLTAGE RANGE: 100 VOLTS

CURRENT: 500mA

FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

MARKING: 48
SOD-523


UNIT:mm

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameters	Symbols	Limits	UNITS
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Working Peak Reverse Voltage	V_{RWM}	100	V
DC Blocking Voltage	V_R	75	V
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current	I_{FM}	500	mA
Average Rectified Output Current	I_O	250	mA
Peak Forward Surge Current	I_{FSM}	4.0 2.0	A
Power Dissipation	P_d	150	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	625	K/W
Storage Temperature	T_{STG}	-65~+150	°C

ELECTRICAL RATINGS

Parameters	Symbols	Test conditions	Min.	Typ.	Max.	UNITS
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 5\mu A$	75			V
	$V_{(BR)R}$	$I_R = 100\mu A$	100			V
Forward Voltage	V_{F1}	$I_F = 5mA$	0.62		0.72	V
	V_{F2}	$I_F = 100mA$			1.0	V
Reverse Current	I_R	$V_R = 20V$			25	nA
Capacitance between Terminals	C_T	$V_R = 0V, f = 1MHz$			4	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10mA,$ $I_{rr} = 0.1 * I_R, R_L = 100\Omega$			4	ns

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