

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- High conductance

MECHANICAL DATA

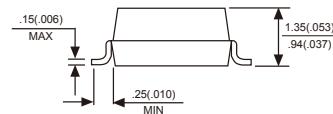
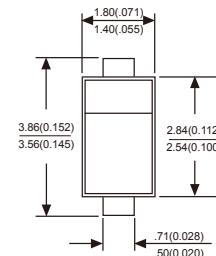
Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Marking: T4

SOD-123



Dimensions in millimeters and (inches)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum ratings and electrical characteristics, Single diode @ $T_A=25^\circ C$

PARAMETER	SYMBOLS	Limits			UNITS
Peak repetitive peak reverse voltage	V_{RRM}				
Working peak	V_{RWM}	75			V
DC Blocking voltage	V_R				
RMS Reverse voltage	$V_{R(RMS)}$	53			V
Forward continuous current	I_{FM}	300			mA
Average rectified output current	I_o	150			mA
Peak forward current @=1.0 μs @=1.0s	I_{FSM}	2.0 1.0			A
Power dissipation	P_d	400			mW
Thermal resistance junction to ambient	$R_{\Theta JA}$	315			K/W
Junction temperature	T_j	125			°C
Storage temperature	T_{STG}	-55 to +150			°C
Non-Repetitive peak reverse voltage	V_{RM}	100			V

Electrical ratings @ $T_A=25^\circ C$

PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Froward voltage	V_{F1}			0.715	V	$I_F=1.0\text{mA}$
	V_{F2}			0.855	V	$I_F=10\text{mA}$
	V_{F3}			1.0	V	$I_F=50\text{mA}$
	V_{F4}			1.25	V	$I_F=150\text{mA}$
Reverse current	I_{R1}			1	μA	$V_R=75V$
	I_{R2}			25	nA	$V_R=20V$
Capacitance between terminals	C_T			2	pF	$V_R=0V, f=1.0\text{MHz}$
Reverse recovery time	t_{rr}			4	ns	$I_F=I_R=10\text{mA}$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$



