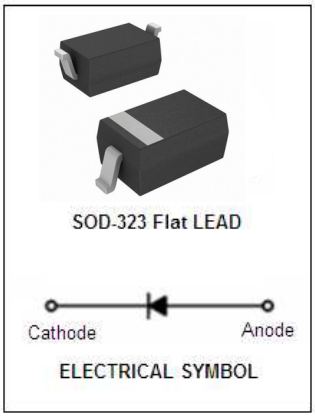
FAST SWITCHING DIODES



FEATURES

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

MARKING:T4

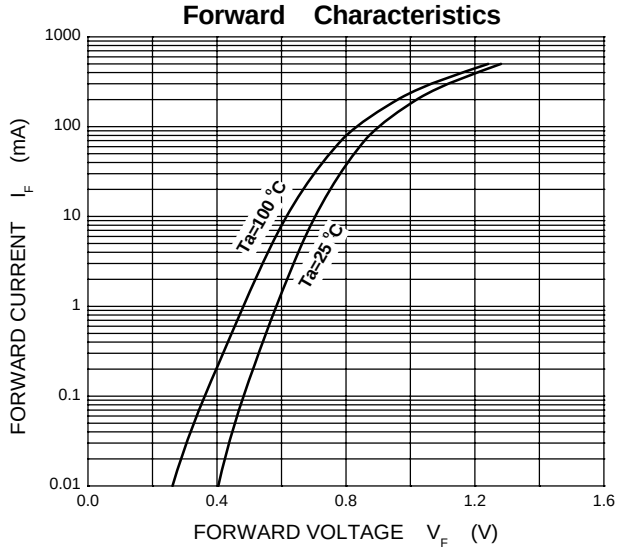
Maximum Ratings and Electrical Characteristics, Single Diode @T_a=25℃

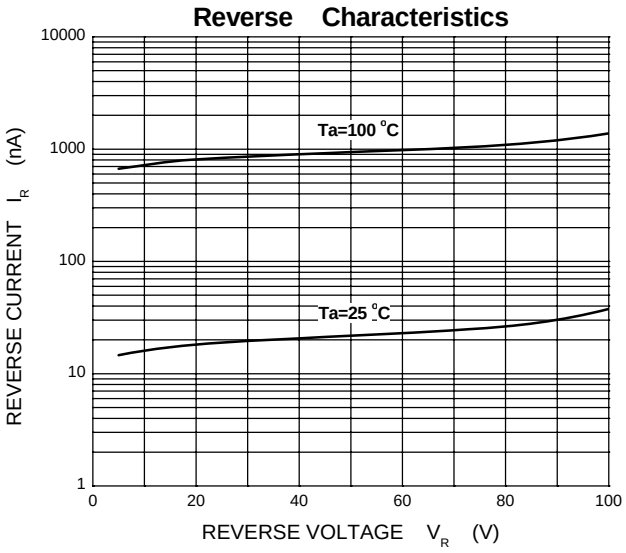
Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	100	V
Peak Repetitive Peak reverse voltage **Working Peak Reverse Voltage** **DC Blocking Voltage**	V_{RRM} V_{RWM} V_R	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	71	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	150	mA
Peak forward surge current @=1.0μs **@=1.0s**	I_{FSM}	2.0 1.0	A
Power Dissipation	Pd	500	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	250	℃/W
Junction temperature	T_j	150	℃
Storage temperature	T_{STG}	-65~+150	℃

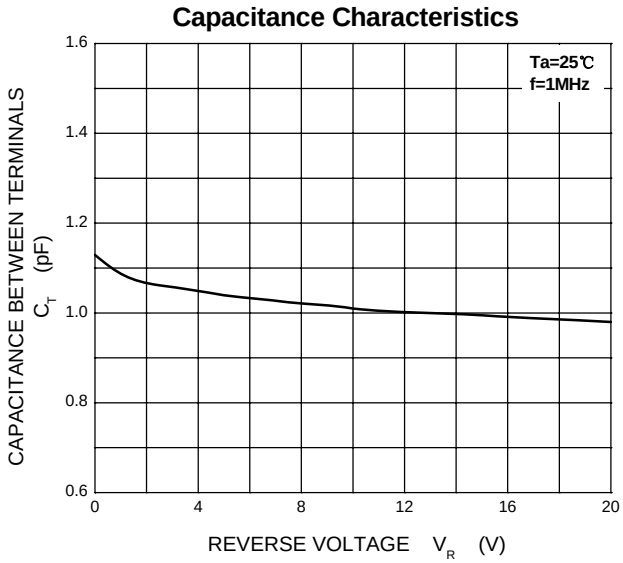
Electrical Ratings @T_a=25℃

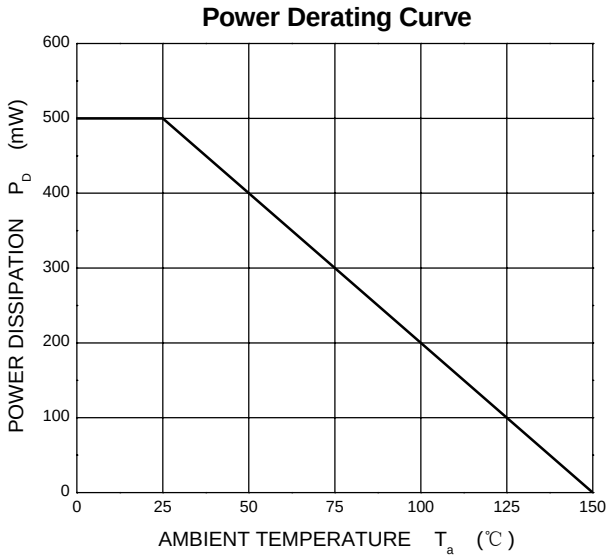
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}			0.715	V	I_F=1mA
	V_{F2}			0.855	V	I_F=10mA
	V_{F3}			1.0	V	I_F=50mA
	V_{F4}			1.25	V	I_F=150mA
Reverse current	I_{R1}			1	μA	V_R=75V
	I_{R2}			25	nA	V_R=20V
Capacitance between terminals	C_T			2	pF	V_R=0V,f=1MHz
Reverse Recovery Time	t_{rr}			4	ns	I_F=I_R=10mA Irr=0.1XI_R,R_L=100Ω

Typical Characteristics 1N4148WS



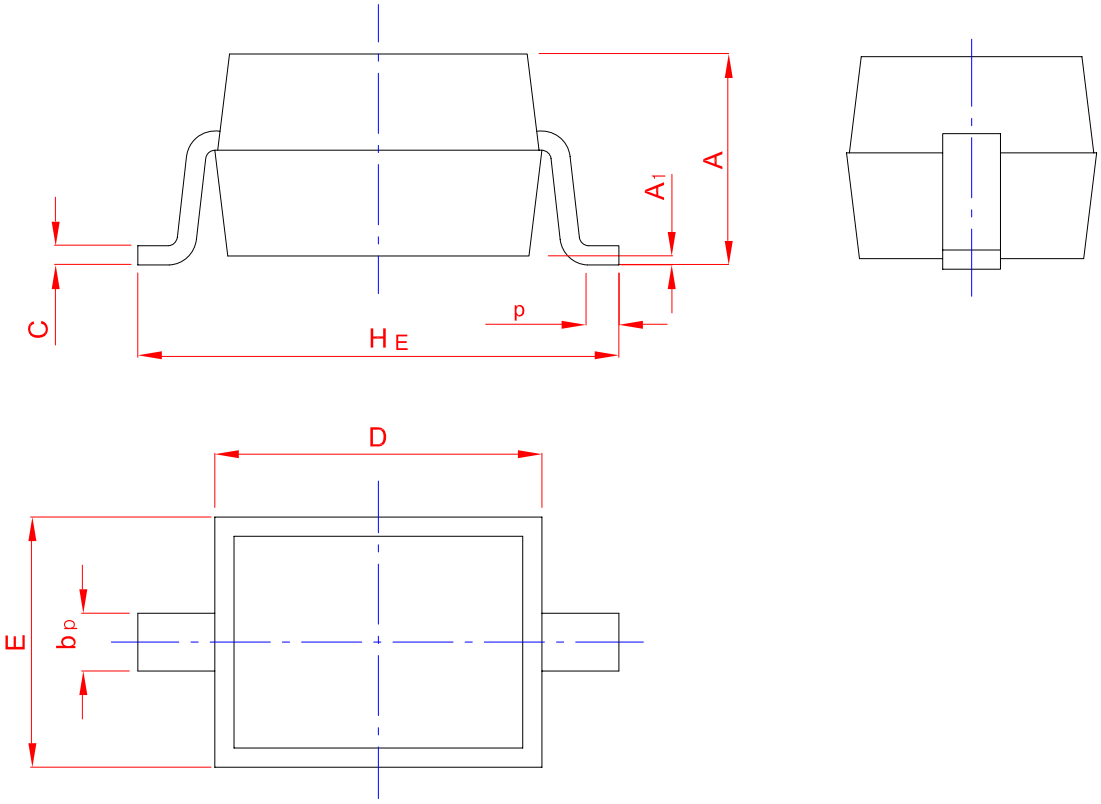






PACKAGE OUTLINE

Plastic surface mounted package; 2 leads **SOD-323**



UNIT	A	b_p	C	D	E	H_E	A_1	L_p
mm	1.20	0.40	0.15	1.80	1.35	2.80	0.10	0.50
	0.8	0.25	0.10	1.60	1.15	2.30	0.01	0.20

Recommended land pattern (Unit: mm)

