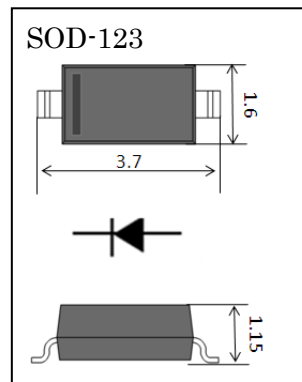


FAST SWITCHING DIODE / DATA SHEET

1N4448W

- ◇ Fast switching devices
- ◇ **SOD123** Micro SMD package
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking
- ◇ Surface Mount Package Ideally Suited for Automatic Insertion
- ◇ For General Purpose Switching Applications
- ◇ High Conductance



Device Marking Code	
1N4448W	T5

Maximum Ratings (T_a = 25 °C)

Symbol	Parameter	Value	Units
V _{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V _{RRM}	Repetitive Peak Reverse Voltage	100	V
V _{R(RMS)}	RMS Reverse Voltage	75	V
I _{FM}	Forward Continuous Current	300	mA
I _O	Average Rectified Output Current	150	mA
I _{FSM}	Non-Repetitive Peak Forward Surge Current(@t=1.0us)	2.0	A
P _D	Power Dissipation	350	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics (T_a = 25 °C)

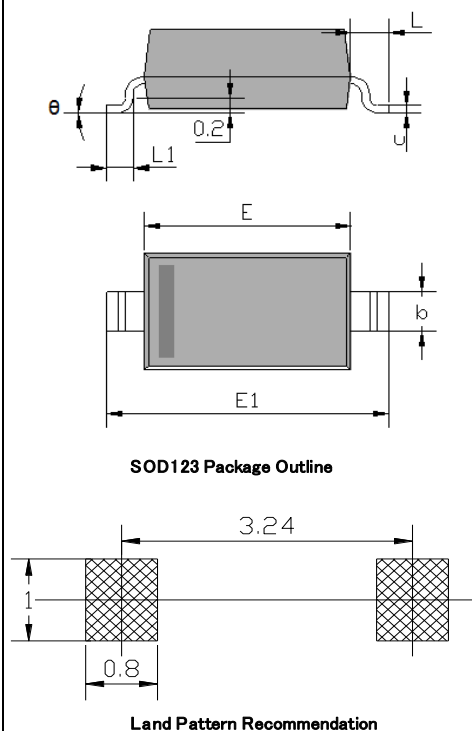
Symbol	Parameter	Conditions	Min	Max	Units
V _F	Forward Voltage	I _F = 5mA		0.72	V
		I _F = 10mA		0.855	V
		I _F = 100mA		1.0	V
		I _F = 150mA		1.25	V
I _R	Reverse current	V _R = 75V		2.5	μA
		V _R = 20V		25	nA
C _T	Capacitance	V _R = 0V, f = 1MHz		2	pF
t _{rr}	Reverse Recovery Time	I _F = I _R = 10mA, I _{RR} = 1mA, R _L = 100 Ω		4	ns

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
1N4448W	SOD123	Tape & Reel 3000pcs /7" Reel	8 mm	4 mm	Conductive	

Package Dimensions

Package outline : SOD-123



Unit	A	A1	A2	b	c	D	E	E1	L	L1	θ
Max.	1.25	0.10	1.15	0.65	0.15	1.70	2.80	3.85	0.500 REF.	0.45	8°
Min.	1.05	0.00	1.05	0.45	0.08	1.50	2.60	3.55		0.25	0°

Note:

1. Halogen free, EMC
2. Pb free solder
3. Lead thickness includes solder plating
4. Lead frame: A42
5. Other Tolerance: ± 0.05
6. Dimensions are exclusive of Burrs, Mold Flash and Tie Bar extrusions
7. Unit: mm

NOTICE

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