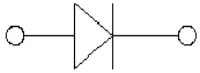


Average forward current	$I_{FAV}$	mA	250
Power dissipation	$P_{tot}$	mW	500
Maximum junction temperature	$T_j$	°C	-55 to +150
Storage temperature range	$T_{stg}$	°C	-55to +150
Thermal Resistance Junction to Ambient Air	$R\theta_{JA}$	°C/W	315


**Features**

- $V_R$  100V
- $I_{FAV}$  250mA

- Extreme fast switches

**Typical Applications**
**Mechanical Data**

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** T5

**Maximum Ratings** ( $T_a=25^\circ\text{C}$  Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	$V_{RRM}$	V		100
Reverse voltage	$V_R$	V	$I_R=100\mu\text{A}$	100
Peak forward surge current	$I_{FSM}$	A	Pulse width=1 us Pulse width=1 s	

**Electrical Characteristics** ( $T_a=25^\circ\text{C}$  Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	$V_R$	V	$I_R=100\mu\text{A}$	100	
Forward Voltage	$V_F$	V	$I_F=100\text{mA}$		1.00
Reverse Leakage Current	$I_{R1}$	nA	$V_R=20\text{V}$		25
	$I_{R2}$	nA	$V_R=75\text{V}$		200
Capacitance	C	pF	$V_R=0\text{V}, f=1\text{MHz}$		4
Reverse Recovery Time	$T_{rr}$	ns	$I_F=I_R=10\text{mA}, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$		4

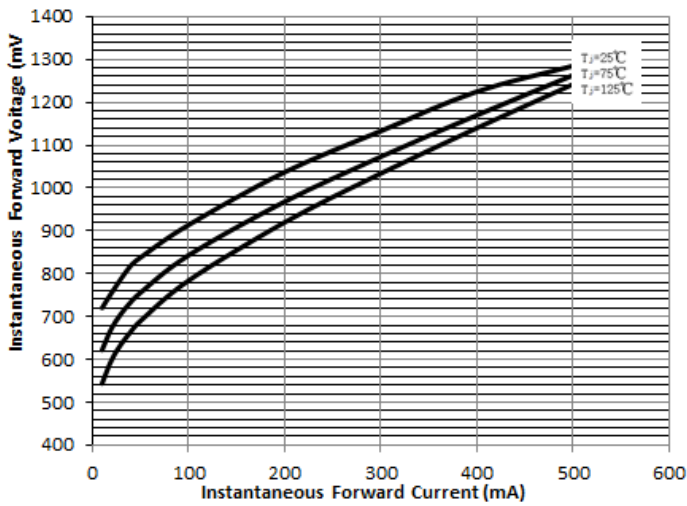
# 1N4448W

## Ordering Information (Example)

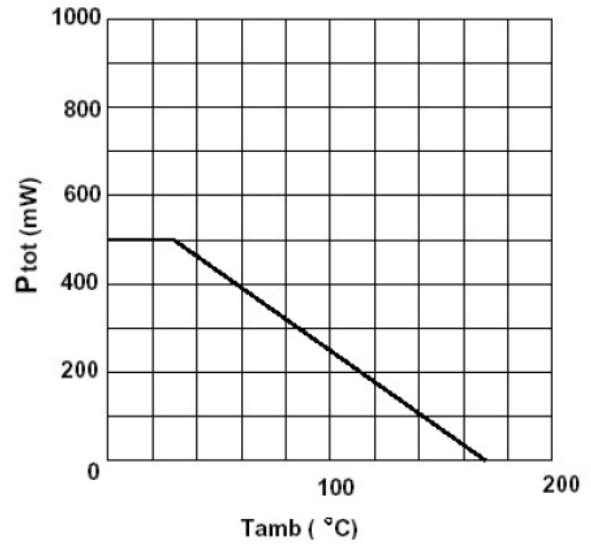
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N4448W	F2	Approximate 0.011	3000	30000	120000	7" reel

## Characteristics (Typical)

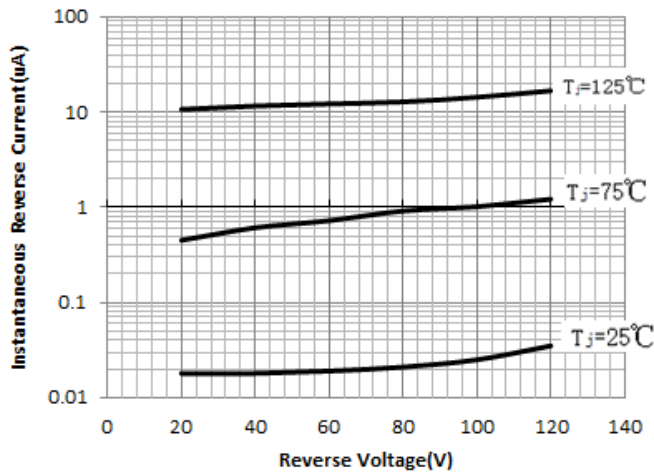
Typical Instantaneous Forward Characteristics



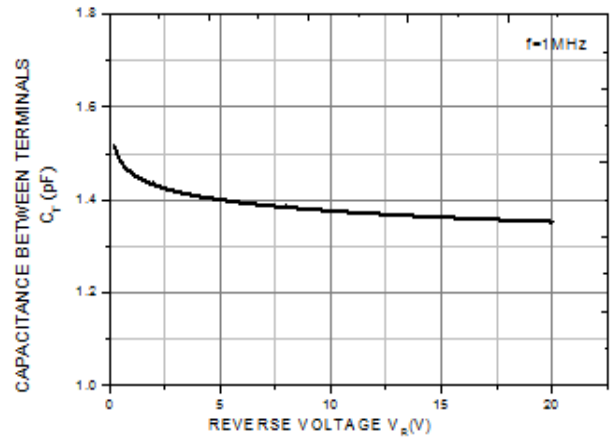
Admissible power dissipation versus ambient temperature



Typical Reverse Characteristics

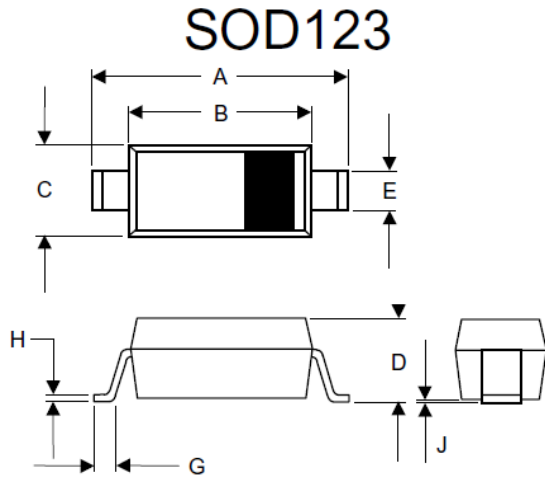


Capacitance Characteristics



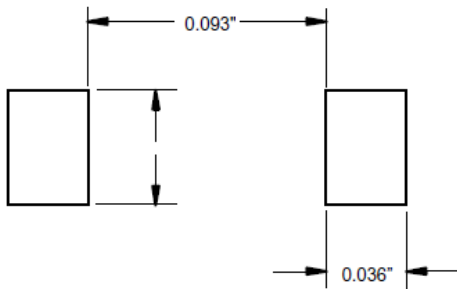
# 1N4448W

## ■ Outline Dimensions



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	-----	.053	-----	1.35	
E	.012	.031	0.30	.78	
G	.006	-----	0.15	-----	
H	-----	.01	-----	.25	
J	-----	.006	-----	.15	

## ■ Soldering Footprint



Unit: inch



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