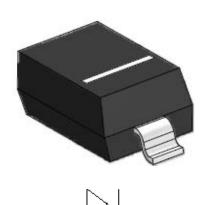




Small-Signal Fast Switching Diodes



Features

- VR 100V
- I_FAV 250mA

Typical Applications

• Extreme fast switches

Mechanical Data

• Package: SOD123

• **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: Cathode line denotes the cathode end

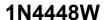
●Marking: T5

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		100
Reverse voltage	V_R	V	IR=100uA	100
Peak forward surge current	I _{FSM}	Α	Pulse width=1 us Pulse width=1 s	2 0.5
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	RθJA	°C/W		315

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V_R	V	IR=100uA	100	
Forward Voltage	V _F	V	IF=100mA		1.00
Reverse Leakage Current	I _{R1}	nA	VR=20V		25
	I _{R2}	nA	VR=75V		200
Capacitance	С	pF	VR=0V,f=1MHz		4
Reverse Recovery Time	Trr	ns	IF=IR=10mA, Irr=0.1*IR, RL=100Ω		4

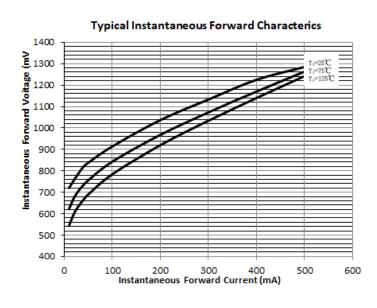


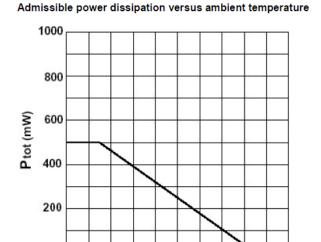


■Ordering Information (Example)

PREFERED 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)

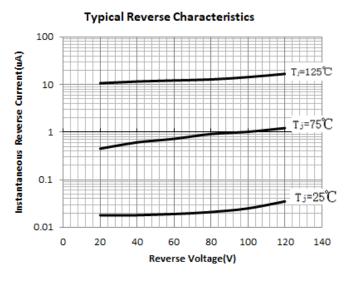


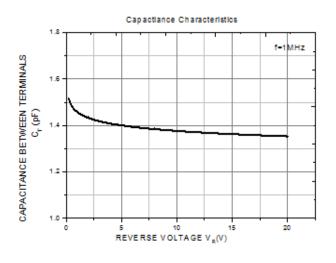


100

Tamb (°C)

0

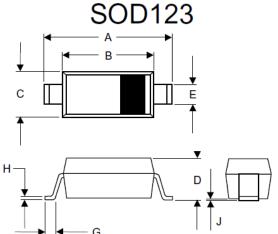




200

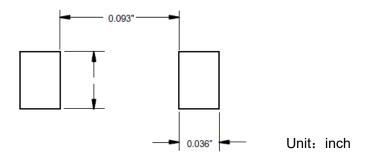


■ Outline Dimensions



DIMENSIONS						
DIM	INCHES		M	NOTE		
	MIN	MAX	MIN	MAX		
Α	.140	.152	3.55	3.85		
В	.100	.112	2.55	2.85		
С	.055	.071	1.40	1.80		
D		.053		1.35		
Е	.012	.031	0.30	.78		
G	.006		0.15			
Н		.01		.25		
J		.006		.15		

■ Soldering Footprint





1N4448W

Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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