

Micro Commercial Components

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1N4148W

Features

- · Fast switching speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For general purpose switching applications
- High conductance

High Speed Switching Diode 200mW

SOD123

Mechanical Data

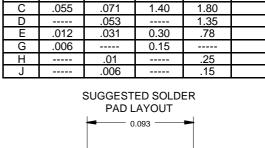
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Weight: 0.01 grams (approx.)
- Marking Code: T4,A2

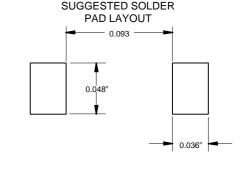
Maximum Ratings @ 25°C Unless Otherwise Specified

Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
Average Rectified Current	I _{F(AV)}	150	mA
Peak Forward Surge Current t=1S	I _{FSM}	1.00	Α
Power Dissipation	P_D	200	mW
Thermal Resistance	R_{JA}	650	K/W
Operation/Storage Temp. Range	T_j , T_{STG}	-55 to +150	°C

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DIMENSIONS							
DIM	INCHES		MM		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				
ш		Λ1		25			





Electrical Characteristics @ 25°C Unless Otherwise Specified

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Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} = 10mA; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	25nA 50μA 5.0uA	V_R =20Volts T_J = 25°C T_J = 150°C V_R =75V, T_J =25°C
Typical Junction Capacitance	CJ	4pF	V _F =V _R =0V
Maximum Voltage Rise when Switching on (tested with 50mA pulse)	V_{fr}	2.5V	Tp=0.1us, rise time<30ns, fp=5 to 100kHz
Maximum Reverse Recovery Time	T _{rr}	4nS	$I_F=10\text{mA}$ $V_R=6V$ $R_L=100\Omega$
Minimum Rectification Efficiency	η	0.4	f=100MHz, V _{RF} =2.0V

^{*} Valid provided that terminals are kept at ambient temperature

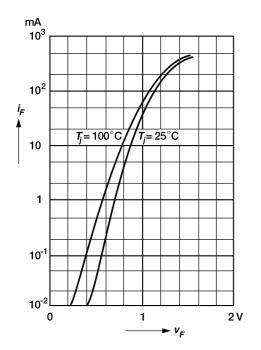
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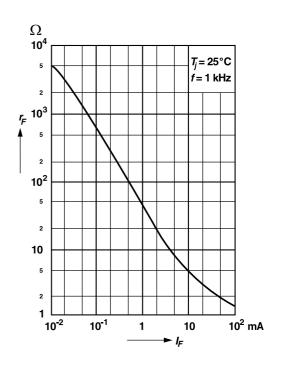
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Dynamic forward resistance versus forward current

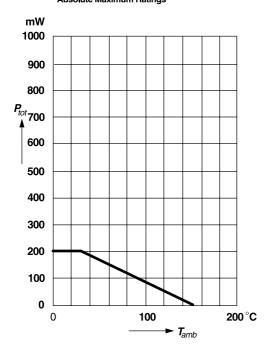


Forward characteristics

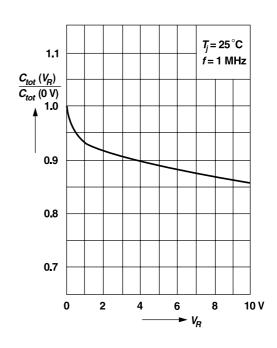


Admissible power dissipation versus ambient temperature

For conditions, see footnote in table "Absolute Maximum Ratings"

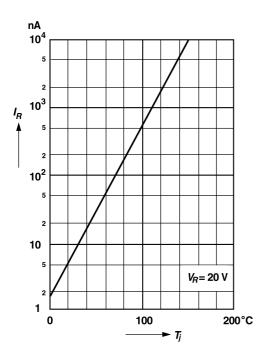


Relative capacitance versus reverse voltage



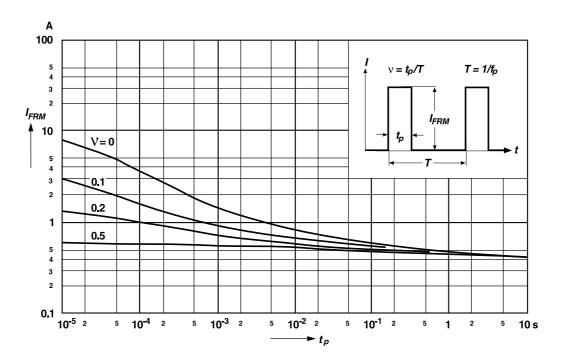


Leakage current versus junction temperature



Admissible repetitive peak forward current versus pulse duration

For conditions, see footnote in table "Absolute Maximum Ratings"





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