

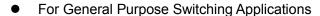
Surface Mount Switching Diode

1N4148W

SOD-123

FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited For Automatic Insertion





MSL 1





APPLICATIONS

Surface mount fast switching diode.

ORDERING INFORMATION

Type No.	Marking	Package Code	
1N4148W□	T4	SOD-123	_

^{☐:} none is for Lead Free package;

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V _{RRM} V _{RWM} V _R	75	>
RMS Reverse Voltage	V _{R(RMS)}	53	V
Average Rectified Output Current	lo	200	mA
Forward Current	I _{FM}	300	mA
Non-Repetitive Peak Forward Surge Current @t=1.0 µs @t=1.0 s	I _{FSM}	2.0 1.0	Α
Power Dissipation	Pd	350	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	357	°C/W
Thermal Resistance Junction to Case	R _{θJC}	225	°C/W
Operating and Storage Temperature Rage	T_j, T_{STG}	-65 to +150	$^{\circ}$

www.gmesemi.com

[&]quot;G" is for Halogen Free package.



Surface Mount Switching Diode

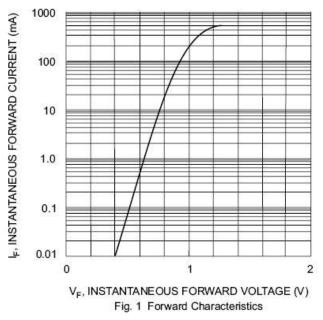
1N4148W

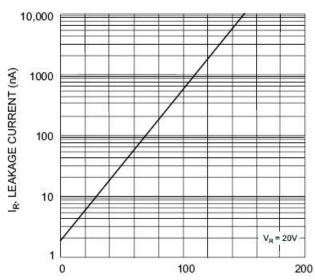
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition													
Forward Voltage	V _F	-	0.715	V	I _F =1.0mA													
			0.855		I _F =10mA													
			1.0		I _F =50mA													
			1.25		I _F =150mA													
Maximum Peak Reverse Current	I _{RM}		2.5	μΑ	V _R =75V													
			50	μΑ	V _R =75V, T _j =150℃													
		IRM	IRM	IRM 	IRM	IRM	IRM	IRM	IRM	IRM	IRM	IRM	IRM	IRM	_	30	μΑ	V _R =25V, T _j =150℃
			25	nA	V _R =20V													
Junction Capacitance	Сл	-	2.0	pF	V _R =0,f=1.0MHz													
Reverse Recovery Time	t _{rr}	-	4.0	ns	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$													

Notes: 1. Valid provided that terminals are kept at ambient temperature.

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified





T_j, JUNCTION TEMPERATURE (°C) Fig. 2 Leakage Current vs Junction Temperature



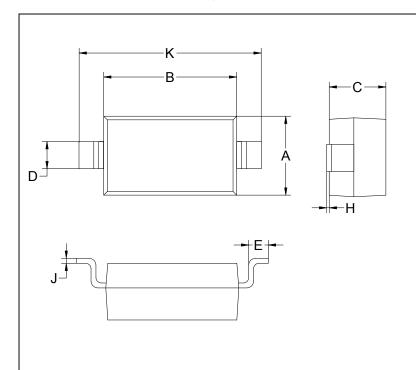
Surface Mount Switching Diode

1N4148W

PACKAGE OUTLINE

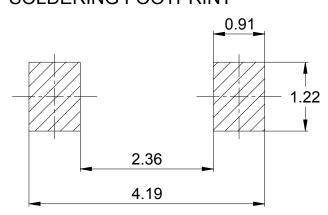
Plastic surface mounted package

SOD-123



SOD-123		
Dim	Min	Max
Α	1.45	1.75
В	2.55	2.85
С	1.00	1.30
D	0.50	0.60
E	0.25	0.45
Н	0.02	0.10
J	0.05	0.15
К	3.55	3.85
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

Device	Package	Shipping
1N4148W	SOD-123	3000/Tape&Reel

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by Galaxy manufacturer:

Other Similar products are found below:

MCL4151-TR3 MMBD3004S-13-F RD0306T-H RD0506LS-SB-1H RGP30G-E373 DSE010-TR-E BAQ333-TR BAQ335-TR BAQ33-GS18 BAS1602VH6327XT BAV17-TR BAV19-TR BAV301-TR BAW27-TAP HSC285TRF-E NSVBAV23CLT1G NTE525 1SS181-TP 1SS184-TP 1SS193,LF 1SS193-TP 1SS400CST2RA SBAV99LT3G SDAA13 LL4448-GS18 SHN2D02FUTW1T1G LS4150GS18 LS4151GS08 SMMBD7000LT3G FC903-TR-E 1N4449 1N4934-E3/73 1SS226-TP APT100DL60HJ RFUH20TB3S RGP30G-E354 RGP30M-E3/73 D291S45T MCL4151-TR BAS 16-02V H6327 BAS 21U E6327 BAS 28 E6327 BAS33-TAP BAS 70-02V H6327 BAV300-TR BAV303-TR3 BAW27-TR BAW56DWQ-7-F BAW56M3T5G BAW75-TAP