

1N4148WS

Max.

2.70

1.40

1.80

0.35

0.15

0.40

1.0

0.10

SURFACE MOUNT **REVERSE VOLTAGE – 75 Volts FAST SWITCHING DIODE** FORWARD CURRENT – 0.15 Ampere **SOD-323 FEATURES** · Fast switching speed SOD-323 · Ideally suited for automatic insertion Dim. Min. • For general purpose switching applications 2.50 А В 1.20 С 1.60 D 0.25 **MECHANICAL DATA** Е 0.08 Case: SOD-323 Plastic FŦ₹D • Case material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl) F 0.25 G ----• Moisture sensitivity: Level 1 per J-STD-020D Н 0.00 • Lead free in RoHS 2002/95/EC compliant Dimensions in millimeter

Maximum Ratings & Thermal Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic		Symbol	1N4148WS	Units
Non-Repetitive Peak Reverse Voltage		V _{RM}	100	V
Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	75	V
Non-repetitive Peak Forward Surge Current	@t<1.0s, δ =25%, T _J = 25℃	I _{FM}	500	mA
Peak Forward Surge Current	Pulse Width=1us 1s	I _{FSM}	2 1	А
Power Dissipation *Ta=25 $^\circ\!\mathrm{C}$		PD	200	mW
Thermal Resistance Junction to Ambient		$R_{\Theta_{JA}}$	635	°C/W
Operating Temperature Range		TJ	-55~+150	°C
Storage Temperature Range		T_{STG}	-65~+150	°C

Electrical Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic	Test Condition	Symbol	1N4148WS	Unit
Maximum Forward Voltage	I _F = 10mA	V _F	1000	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 75V V _R = 20V	I _R	5 25	uA nA
Typical Diode Capacitance	V _R =0V,f=1MHz	C _D	4	pF
Reverse Recovery time	I _R =I _F =10mA (Figure1)	trr	4	ns
* EB_4 Minimum Pad			BEV 3 Aug-2017	(SYR94

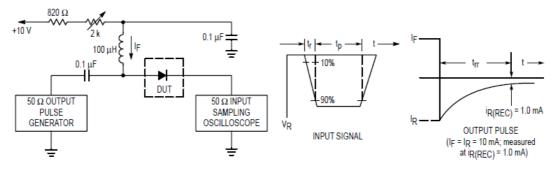
FR-4 Minimum Pad.

REV.3, Aug-2017, KSYR94

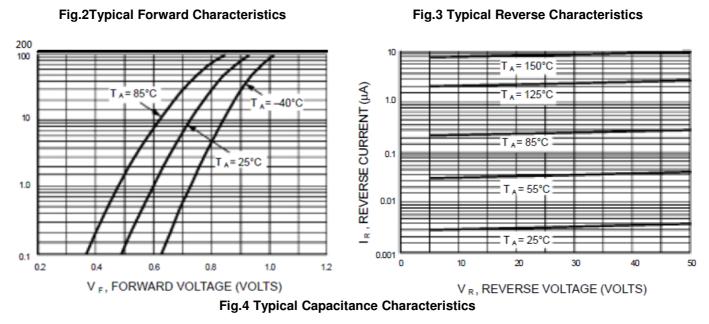
RATING AND CHARACTERISTIC CURVES

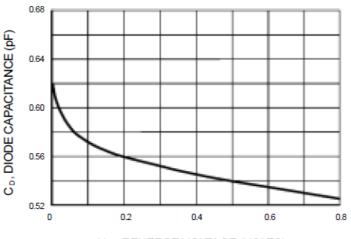
Fig.1 Recovery Time Equivalent Test Circuit

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Notes: 1. A 2.0 k Ω variable resistor adjusted for a Forward Current (I $_{p}$) of 10mA. 2. Input pulse is adjusted so I $_{R(peak)}$ is equal to 10mA. 3. t $_{p}$ » t $_{m}$





V_R, REVERSE VOLTAGE (VOLTS)

1N4148WS

Device Marking :

Device P/N	Marking code	Equivalent Circuit Diagram	
1N4148WS	5D	1 0−−−−0 2	



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