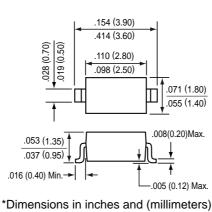
## SURFACE MOUNT SWITCHING DIODE

Halogen-free type Lead free product





SOD-123

Features

- \* Fast Switching Speed.
- \* Electrically Identical to Standerd JEDEC
- \* High Conductance
- \* Surface Mount Package Ideally Suited for Automatic Insertion.

## Mechanical Data

Case : SOD-123 plastic case.

Terminals : Solderable per MIL-STD-202, Method 208 Standard packaging : 8mm tape Weight : approximately 0.01g

## MAXIMUM RATINGES ( At TA = $25^{\circ}$ C unless otherwise noted )

RATINGS	Symbol	1N4148WGH	UNITS
Reverse Voltage	Vr	75	Volts
Peak Reverse Voltage	Vrm	100	Volts
Maximum RMS Voltage	Vrms	50	Volts
Maximum DC Blocking Voltage	Vdc	75	Volts
Maximum Average Forward Current at Ta = 25°C	lav	150	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load ( JEDEC method )	IFSM	2	Amps
Typical Junction Capacitane (NOTES 1)	CJ	4	pF
Maximum Reverse Recovery (NOTES 2)	Trr	4	nSec
Maximum Thermal Resistance	R∂JA	450	°C / W
Storage Temperature Range	Tj	-55 to +125	°C

## ELECTRICAL CHARACTERISTICS ( At TA = 25°C unless otherwise noted )

CHARACTERISTICS	Symbol	1N4148WGH	UNITS
Maximum Instantaneous Forward Voltage at 0.05 A	VF	1.0	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J = 25^{\circ}C$	lr	2.5	uAmps
Power Dissipation Derate Above 25°C	Ptot	410	mW

NOTES : 1. CJ at  $V_R = 0$ , f = 1MHz

2. From IF = 10mA to IR = 1mA, VR = 6 Volts, RL = 100  $\ensuremath{\Omega}$ 



