

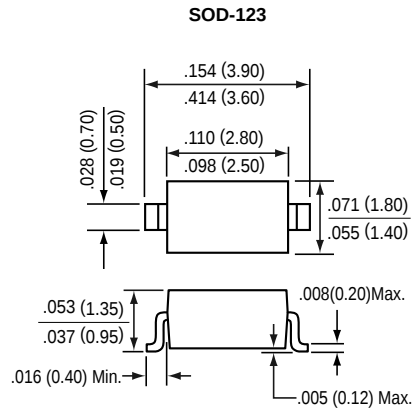


SURFACE MOUNT SWITCHING DIODE

Halogen-free type

Lead free product

1N4148WGH



*Dimensions in inches and (millimeters)

Features

- * Fast Switching Speed.
- * Electrically Identical to Standard 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 RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	Symbol	1N4148WGH	UNITS
Reverse Voltage	V _R	75	Volts
Peak Reverse Voltage	V _{RM}	100	Volts
Maximum RMS Voltage	V _{RMS}	50	Volts
Maximum DC Blocking Voltage	V _{DC}	75	Volts
Maximum Average Forward Current at Ta = 25°C	I _{AV}	150	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	2	Amps
Typical Junction Capacitance (NOTES 1)	C _J	4	pF
Maximum Reverse Recovery (NOTES 2)	T _{RR}	4	nSec
Maximum Thermal Resistance	R _{θJA}	450	°C / W
Storage Temperature Range	T _j	-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	V _F	1.0	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C	I _R	2.5	uAmps
Power Dissipation Derate Above 25°C	P _{tot}	410	mW

NOTES : 1. C_J at V_R = 0, f = 1MHz

2. From I_F = 10mA to I_R = 1mA, V_R = 6 Volts, R_L = 100 Ω



[查询"1N4148WGH"参数](#)
RATINGS AND CHARACTERISTIC CURVES 1N4148WGH

FIG.1 - FORWARD CHARACTERISTICS

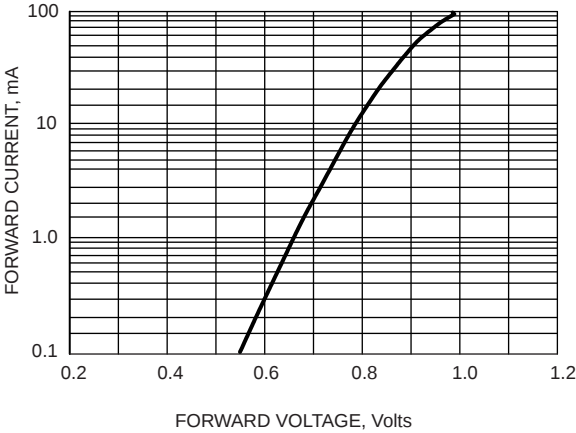


FIG.2 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

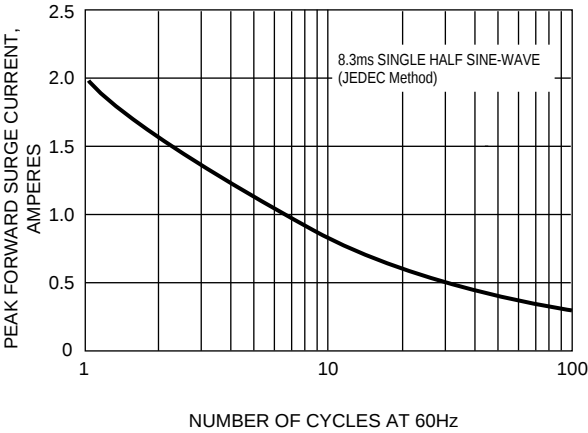


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

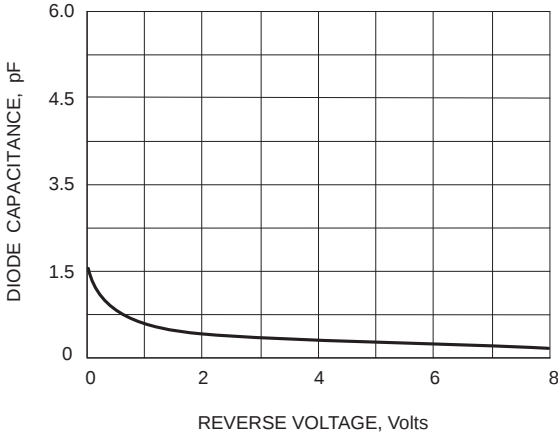


FIG.4 - REVERSE CHARACTERISTICS

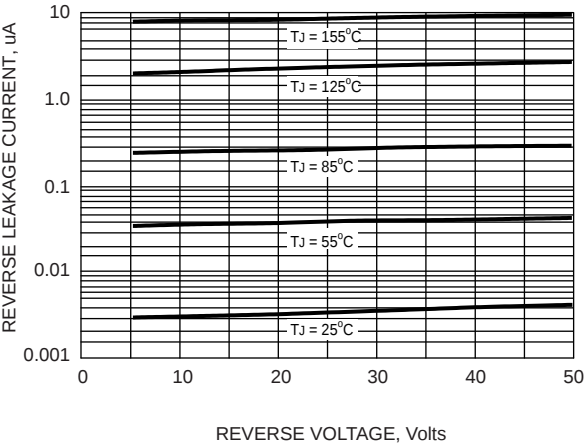


FIG. 5 - RECTIFICATION EFFICIENCY MEASUREMENT CIRCUIT

