# Switching diode

# 1N4148 / 1N4150 / 1N4448 / 1N914B

\*This product is available only outside of Japan.

#### Applications

High-speed switching

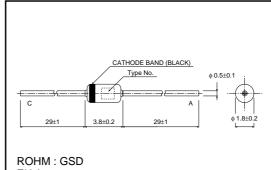
#### Features

- 1) Glass sealed envelope. (GSD)
- 2) High speed.
- 3) High reliability.

#### Construction

Silicon epitaxial planar

# ●External dimensions (Units : mm)



EIAJ : – JEDEC : DO-35

# ● Absolute maximum ratings (Ta = 25°C)

Туре	V <sub>RM</sub> (V)	V <sub>R</sub> (V)	I <sub>FM</sub> (mA)	lo (mA)	I <sub>F</sub> (mA)	Іғѕм 1μ <b>ѕ</b> (А)	P (mW)	Tj (°C)	Topr (°C)	Tstg (°C)
1N4148	100	75	450	150	200	2	500	200	-65~+200	-65 <b>~</b> +200
1N4150	50	50	600	200	250	4	500	200	-65~+200	-65 <b>~</b> +200
1N4448 (1N914B)	100	75	450	150	200	2	500	200	-65~+200	−65~+200

# ●Electrical characteristics (Ta = 25°C)

		VF (V)										BV (V) Min.		IR (μA) Max.				C <sub>r</sub> (pF)	trr (ns)	
Туре	@ 0.1mA	@ 0.25mA	@ 1mA	@ 2mA	@ 5mA	@ 10mA	@ 20mA	@ 30mA	@ 50mA	@ 100mA	@ 200mA	@ 250mA	@ 5μA	@ 100μA	@2	5°C VR (V)		50°C VR (V)	VR=0 f=1MHz	VR=6V IF=10mA RL=100Ω
1N4148						1.0							75	100	0.025 5.0	20 75	50.0	20	4	4
1N4150			0.54			0.66			0.76	0.82	0.87		-	50	0.1	50	100.0	50	2.5	4
1N4448 (IN914B)					0.62 / 0.72					1.0			-	100	0.025 5.0	20 75	50.0	20	4	4

The upper figure is the minimum  $\ensuremath{\mathsf{VF}}$  and the lower figure is the maximum  $\ensuremath{\mathsf{VF}}$  value.

# ●Electrical characteristic curves (Ta = 25°C)

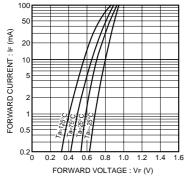


Fig. 1 Forward characteristics

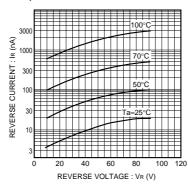


Fig. 2 Reverse characteristics

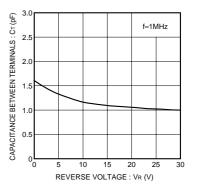


Fig. 3 Capacitance between terminals characteristics

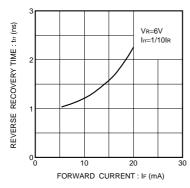


Fig. 4 Reverse recovery time characteristics

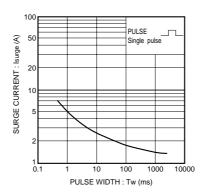


Fig. 5 Surge current characteristics

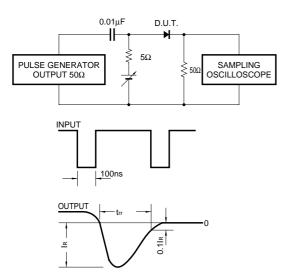


Fig. 6 Reverse recovery time (trr) measurement circuit

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www.datasheetcatalog.com

Datasheets for electronics components.