# Switching diode 1N4148 / 1N4150 / 1N4448

\*This product is available only outside of Japan.

## Application

High-speed switching

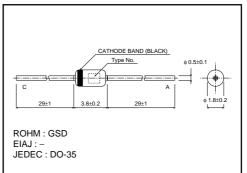
#### Features

Glass sealed envelope. (GSD)
 High speed.
 High reliability.

## Construction

Silicon epitaxial planar

## •External dimensions (Unit : mm)



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

Туре	V <sub>RM</sub> (V)	V <sub>R</sub> (V)	Iғм (mA)	lo (mA)	l⊧ (mA)	Ігѕм 1μѕ (А)	P (mW)	Tj (°C)	Topr (°C)	Tstg (°C)
1N4148	100	75	450	150	200	2	500	200	-65 to +200	-65 to +200
1N4150	50	50	600	200	250	4	500	200	-65 to +200	-65 to +200
1N4448 (1N914B)	100	75	450	150	200	2	500	200	-65 to +200	-65 to +200

## ●Electrical characteristics (Ta=25°C)

		VF (V)											BV (V) Min.		Ir (μA) Max.				Cr (pF)	trr (ns)
Туре	@ 0.1mA	@ 0.25mA	@ 1mA	@ 2mA	@ 5mA	@ 10mA	@ 20mA	@ 30mA	@ 50mA	@ 100mA	@ 200mA	@ 250mA	@ 5μΑ	@ 100μΑ	@2	5°C Vr (V)	@1	50°C Vr (V)	Vr=0 f=1MHz	VR=6V IF=10mA RL=100Ω
1N4531									/				75	100	0.025	20	50.0	20	4	4
			$\vee$	1.0							15	100	5.0	75	30.0	20	-	-		
1N4148													75	100	0.025	20	50.0	20	4	4
	$\vee \vee$				1.0						$\vee$	15	100	5.0	75	30.0	20	4	4	
1N4150			0.54 0.62			0.66			0.76		0.87		-	50	0.1	50	100.0	50	2.5	4
1N4448		$\square$	$\square$		0.62					1.0			-	100	0.025	20	50.0	20	4	4
		$\bigvee$			0.72	$\bigvee$									5.0	75	50.0			

The upper figure is the minimum  $\mathsf{V}_\mathsf{F}$  and the lower figure is the maximum  $\mathsf{V}_\mathsf{F}$  value.



## Diodes

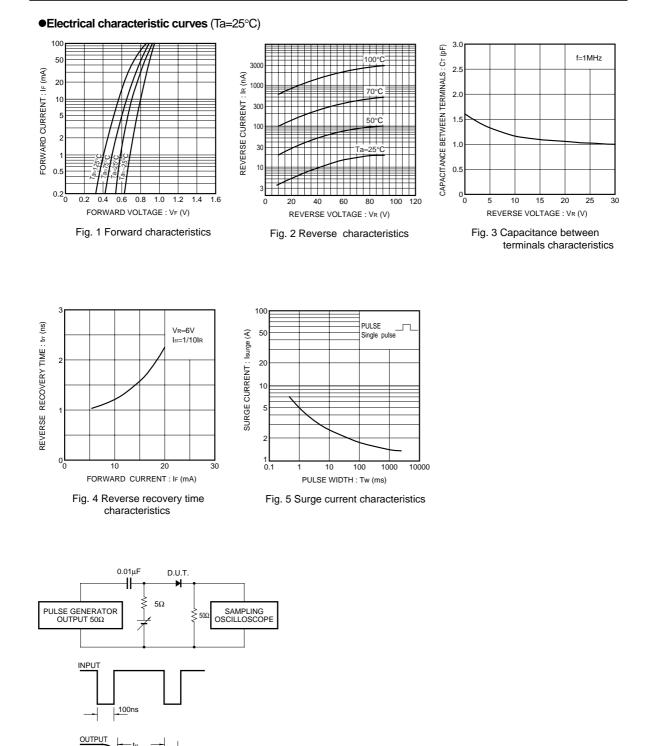


Fig. 6 Reverse recovery time (trr) measurement circuit

0.11R

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