Switching diode 1N4531 / 1N4148 / 1N4150 / 1N4448

*This product is available only outside of Japan.

Application

High-speed switching

Features

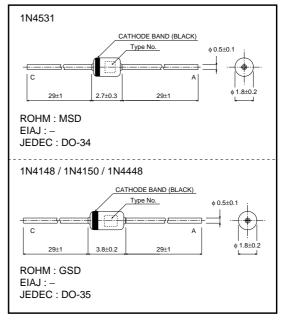
1) Glass sealed envelope. (MSD, GSD)

- 2) High speed.
- 3) High reliability.

Construction

Silicon epitaxial planar

• External dimensions (Units : mm)



Туре	Vrm (V)	Vr (V)	Іғм (mA)	lo (mA)	l⊧ (mA)	І _{FSM} 1μs (A)	P (mW)	Tj (°C)	Topr (°C)	Tstg (°C)
1N4531	100	75	450	150	200	2	500	200	-65~+200	-65~+200
1N4148	100	75	450	150	200	2	500	200	-65~+200	-65~+200
1N4150	50	50	600	200	250	4	500	200	-65~+200	-65~+200
1N4448	100	75	450	150	200	2	500	200	-65~+200	-65~+200

● Absolute maximum ratings (Ta = 25°C)

• 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		$1 \land$	\square									75	100	0.025	20	50.0	20	4	4	
						1.0							75	100	5.0	75	50.0	20	4	4
1N4148		$1 \land$	1 /	\Box				\Box				75	100	0.025	20	50.0	20	4	4	
						1.0							15	100	5.0	75	30.0	20	4	4
1N4150			0.54			0.66			0.76 0.86		0.87		-	50	0.1	50	100.0	50	2.5	4
1N4448		1 7	1 7	\bigwedge	0.62	$\mid 7$	7			1.0			-	100	0.025	20	50.0	20	4	4
															5.0	75	- 50.0			

The upper figure is the minimum V_F and the lower figure is the maximum V_F value.

Diodes

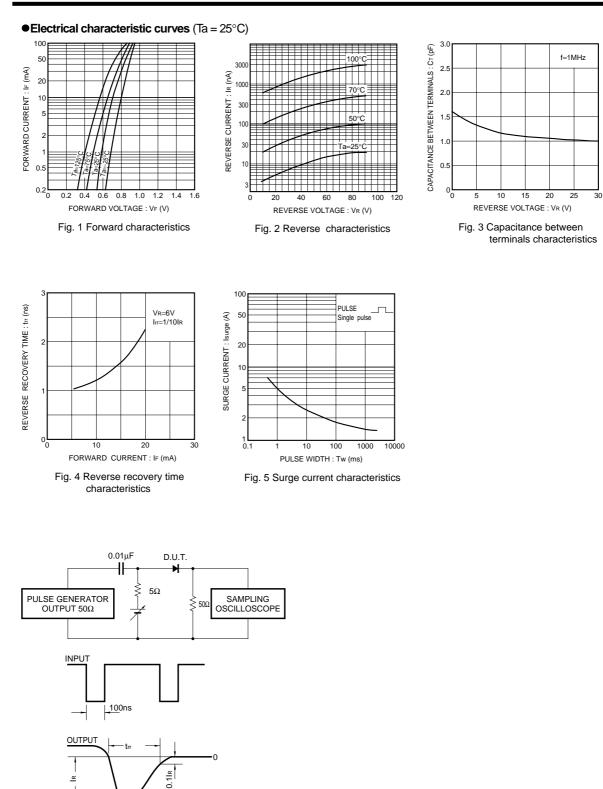


Fig. 6 Reverse recovery time (trr) measurement circuit

Notes

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