Switching diode

RLS4148 / RLS4150 / RLS4448

*This product is available only outside of Japan.

Applications

High-speed switching

Features

1) Small surface mounting type. (LLDS)

High speed.

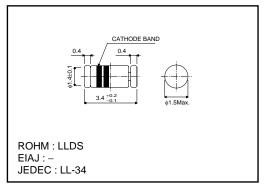
3) For surface mounting.

4) High reliability.

Construction

Silicon epitaxial planar

•External dimensions (Units : mm)



•Absolute maximum ratings (Ta = 25°C)

Туре	Vrm (V)	V _R (V)	І _{FM} (mA)	lo (mA)	l⊧ (mA)	I _{FSM} 1µs (A)	P (mW)	Tj (°C)	Topr (°C)	Tstg (°C)	
RLS4148	100	75	450	150	200	2	500	200	-65~+200	-65~+200	
RLS4150	50	50	600	200	250	4	500	200	-65~+200	-65~+200	
RLS4448	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.				Cr (pF)	trr (ns)
Туре	@ @ @		@	@	@	@	@	@	@2 <u>5°C</u>		@150°C		Vr=0	VR=6V IF=10mA
	1mA	5mA	10mA	50mA	100mA	200mA	5μΑ	100µA		VR (V)		Vr (V)	f=1MHz	RL=100Ω
RLS4148							75	100	0.025	20	50.0	20	4	4
		1.0				75	100	5.0	75	50.0	20	4	-	
RLS4150	0.54		0.66	0.76	0.82	0.87		50	0.1	50	50 100.0	50	2.5	4
	0.62		0.74	0.86	0.92	1.0	-			50				
RLS4448	0.62					_	100	0.025	20	50.0	20	4	4	
		0.72			1.0		-	100	5.0	75	30.0	20	4	4

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



Diodes

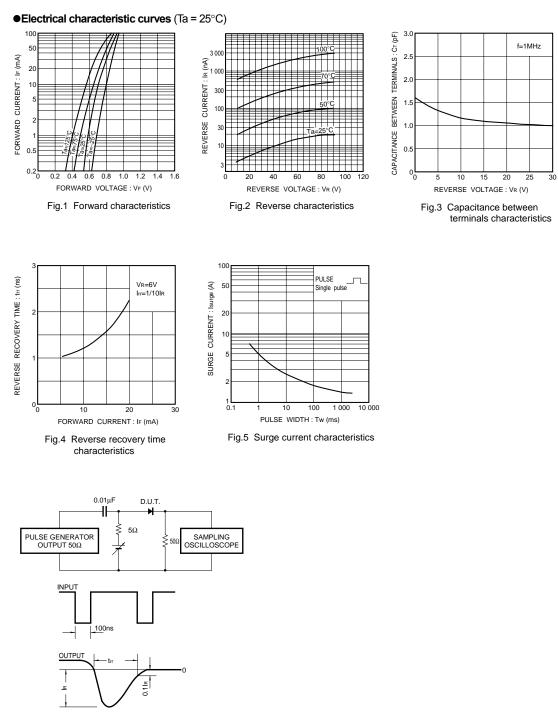


Fig.6 Reverse recovery time (trr) measurement circuit

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