Switching diode

RLS4148 / RLS4150 / RLS4448

*This product is available only outside of Japan.

Applications

High-speed switching

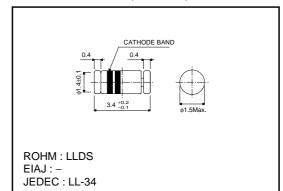
Features

- 1) Small surface mounting type. (LLDS)
- 2) High speed.
- 3) For surface mounting.
- 4) High reliability.

Construction

Silicon epitaxial planar

●External dimensions (Units : mm)



● Absolute maximum ratings (Ta = 25°C)

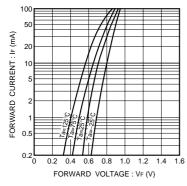
Туре	V _{RM} (V)	V _R (V)	I _{FM} (mA)	lo (mA)	I _F (mA)	I _{FSM} 1μs (A)	P (mW)	Tj (°C)	Topr (°C)	Tstg (°C)	
RLS4148	100	75	450	150	200	2	500	200	−65~+200	−65~+200	
RLS4150	50	50	600	200	250	4	500	200	−65~+200	-65~+200	
RLS4448	100	75	450	150	200	2	500	200	−65~+200	−65~+200	

●Electrical characteristics (Ta = 25°C)

	VF (V)						B∨ (V)Min.		IR (μA)Max.				Cr (pF)	trr (ns)	
Type	@ @ @		@	@ @		@	@	@	@25°C		@150°C		VR=0	VR=6V IF=10mA	
	1mA	5mA	10mA	50mA	100mA	200mA	5μΑ	100μΑ		VR (V)		VR (V)	f=1MHz	RL=100Ω	
RLS4148			1 /			75	100	0.025	20	50.0	20	4	4		
			1.0				75	100	5.0	75	50.0	20	4	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				30					
RLS4448		0.62		/ /		_	100	0.025	20	50.0	20	4	4		
		0.72			1.0		_	100	5.0	75	30.0	20	4		

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

●Electrical characteristic curves (Ta = 25°C)



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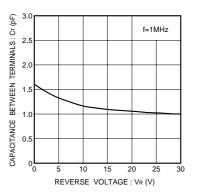
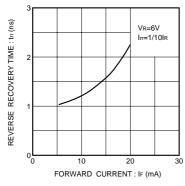
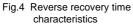


Fig.1 Forward characteristics

Fig.2 Reverse characteristics

Fig.3 Capacitance between terminals characteristics





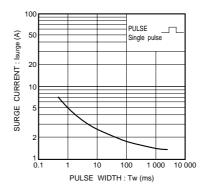


Fig.5 Surge current characteristics

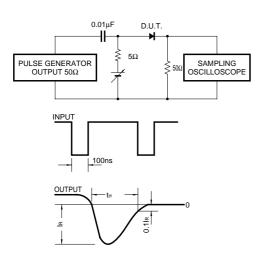


Fig.6 Reverse recovery time (trr) measurement circuit

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