# Switching diode

# RLS4148 / RLS4150 / RLS4448

\*This product is available only outside of Japan.

## Applications

High-speed switching

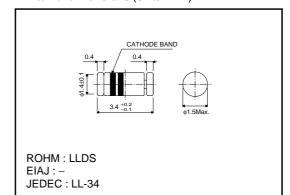
#### Features

- 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)

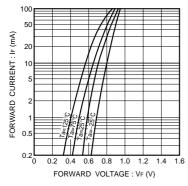
Туре	V <sub>RM</sub> (V)	V <sub>R</sub> (V)	I <sub>FM</sub> (mA)	lo (mA)	I <sub>F</sub> (mA)	I <sub>FSM</sub> 1μs (A)	P (mW)	Tj (°C)	Topr (°C)	Tstg (°C)	
RLS4148	100	75	450	150	200	2	500	200	<b>−65~+200</b>	−65~+200	
RLS4150	50	50	600	200	250	4	500	200	<b>−65~+200</b>	-65~+200	
RLS4448	100	75	450	150	200	2	500	200	<b>−65~+200</b>	−65~+200	

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

	VF (V)						Bv (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			.0			75	100	0.025	20	50.0	20	4	4	
		1.0						5.0	75					
RLS4150	0.54		0.66	0.76	0.82	0.87	-	50	0.1	50 10	100.0	50	2.5	4
	0.62		0.74	0.86	0.92	1.0					100.0	30		
RLS4448		0.62	1 /		1 7		-	100	0.025	20	50.0	20	4	4
		0.72			1.0				5.0	75				

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)



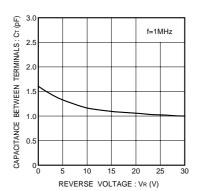
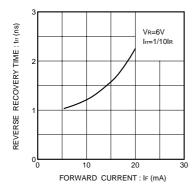
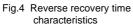


Fig.1 Forward characteristics

Fig.2 Reverse characteristics

Fig.3 Capacitance between terminals characteristics





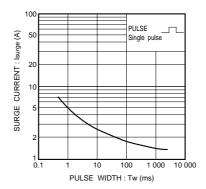


Fig.5 Surge current characteristics

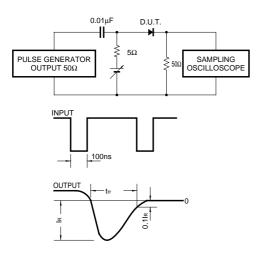


Fig.6 Reverse recovery time (trr) measurement circuit

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