

These diodes are suitable for high density surface mounting on printed circuit boards. They have a very high switching speed. (The reverse recovery time (t_{rr}) is less than 2 ns.)

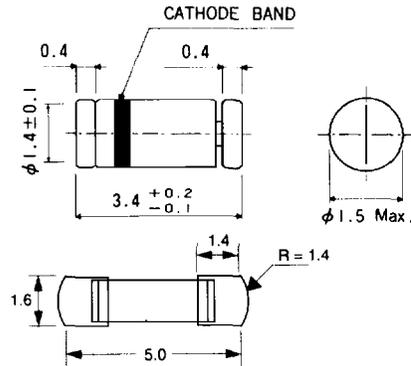
Features

- available in LLDS (LL-34) package
- part marking, see following table
- low forward voltage ($V_F = 0.85$ V typically)

Applications

- ultra high speed switching

Dimensions (Units : mm)



Cathode band color

Part no.	Color
RLS92	Blue

Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	75	V
DC reverse voltage	V_R	65	V
Peak forward current	I_{FM}	600	mA
Mean rectifying current	I_O	200	mA
Surge current (1 μs)	I_{surge}	4	A
Power dissipation	P_d	300	mW
Junction temperature	T_j	175	$^\circ\text{C}$
Storage temperature	T_{stg}	-65 ~ +175	$^\circ\text{C}$

Electrical characteristics (unless otherwise noted, $T_a = 25^\circ\text{C}$)

Parameter	Symbol	Min	Typical	Max	Unit	Conditions
Forward voltage	V_F		0.87	1.0	V	$I_F = 100$ mA
Reverse current	I_R		0.12	0.5	μA	$V_R = 65$ V
Capacitance between terminals	C_t		0.97	3	pF	$V_R = 0$ V, $f = 1$ MHz
Reverse recovery time	t_{rr}		1.2	2	ns	$V_R = 6$ V, $I_F = 10$ mA, $R_L = 50$ Ω

Electrical characteristic curves

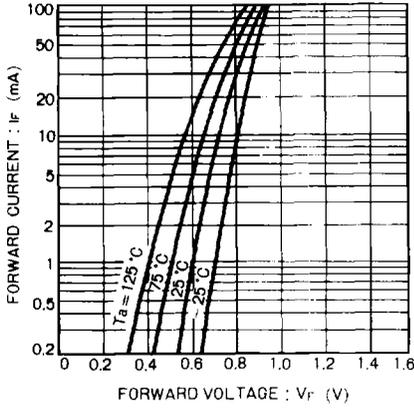


Figure 1

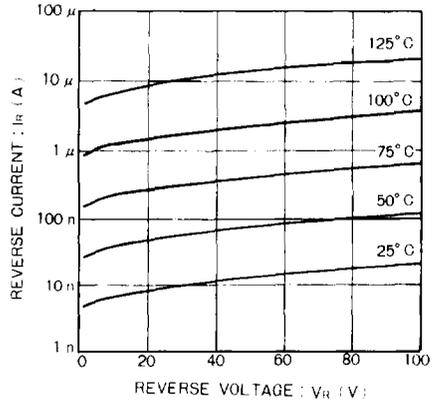


Figure 2

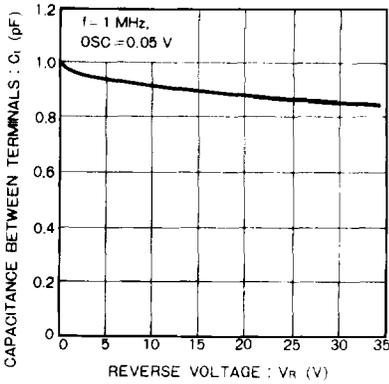


Figure 3

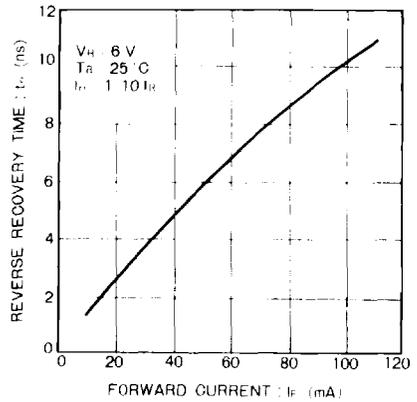


Figure 4

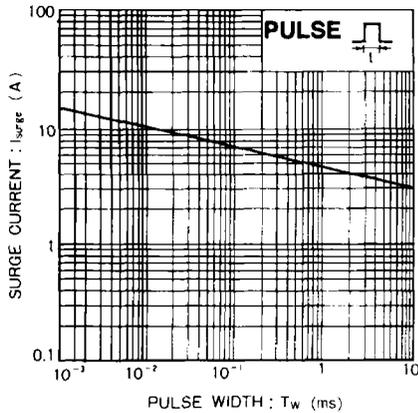
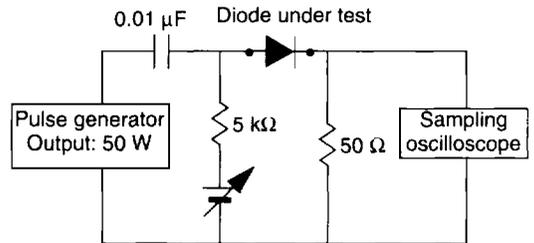


Figure 5



Test circuit for measuring reverse recovery time (t_{rr})

Figure 6