

Switching Diodes

Surface mounted switching diodes are available in leadless MELF style (LL-34) and in 2 lead molded packages (USM/DSM). High speed, low leakage and high voltage devices are available for specific applications.

●High-speed Switching Diodes

Part No.	Absolute maximum ratings (Ta=25°C)							Electrical characteristics (Ta=25°C)								Package		
	V _{RM} (V)	V _R (V)	I _{FM} (mA)	I _O (mA)	I _{surge} (mA) 1s	T _j (°C)	T _{stg} (°C)	V _F (V) Max.		I _R (μA) Max.		C _T (pF) Max.		trr (ns) Max.				
								I _F (mA)	V _R (V)	I _R (μA)	V _R (V)	f (MHz)	V _R (V)	I _F (mA)				
1SS353	90	80	225	100	400	125	-55~+125	1.2	100	0.5	80	3	0.5	1	4	6	10	USM
1SS354	55	50	225	100	400	125	-55~+125	1.2	100	0.5	50	3	0.5	1	4	6	10	USM
1SS355	40	35	225	100	400	125	-55~+125	1.2	100	0.5	35	3	0.5	1	4	6	10	USM
RLS-71	90	80	400	130	600	175	-65~+175	1.2	100	0.5	80	2	0.5	1	4	6	10	LL-34
RLS-72	55	50	350	120	500	175	-65~+175	1.2	100	0.5	50	2	0.5	1	4	6	10	LL-34
RLS-73	40	35	300	110	400	175	-65~+175	1.2	100	0.5	35	3	0.5	1	4	6	10	LL-34

●Ultra High-speed Switching Diodes

Part No.	Absolute maximum ratings (Ta=25°C)							Electrical characteristics (Ta=25°C)									Package	
	V _{RM} (V)	V _R (V)	I _{FM} (mA)	I _O (mA)	I _{surge} (mA) 1 μs	T _J (°C)	T _{stg} (°C)	V _F (V) Max.		I _R (μA) Max.		C _T (pF) Max.			trr (ns) Max.			
								I _F (mA)	V _R (V)	I _R (μA)	V _R (V)	f (MHz)	V _R (V)	I _F (mA)				
RLS-92	75	65	600	200	4000	175	-65~+175	1.0	100	0.5	65	3	0	1	2	6	10	LL-34
RLS-93	55	50	600	200	4000	175	-65~+175	1.0	100	0.5	50	3	0	1	2	6	10	LL-34
RLS-94	40	35	600	200	4000	175	-65~+175	1.0	100	0.5	35	3	0	1	2	6	10	LL-34

●Low-leakage Switching Diodes

Part No.	Absolute maximum ratings (Ta=25°C)							Electrical characteristics (Ta=25°C)								Package		
	VRM (V)	VR (V)	IFM (mA)	IO (mA)	Isurge (mA) 1s	Tj (°C)	Tstg (°C)	VF (V) Max.		IR (nA) Max.		CT (pF) Max.		trr (ns) Max.				
								IF (mA)	VR (V)	IR (nA)	VR (V)	f (MHz)	VR (V)	IF (mA)				
RLS139	90	80	400	130	600	175	-65~+175	1.2	100	20	30	5	0.5	1	50	6	10	LL-34
RLS140	55	50	350	120	500	175	-65~+175	1.2	100	10	25	5	0.5	1	50	6	10	LL-34
RLS141	40	35	300	110	400	175	-65~+175	1.2	100	10	20	5	0.5	1	50	6	10	LL-34

●High-voltage Switching Diodes

Part No.	Absolute maximum ratings (Ta=25°C)							Electrical characteristics (Ta=25°C)								Package	
	V _{RM} (V)	V _R (V)	I _{FM} (mA)	I _O (mA)	I _{surge} (mA) 1s	T _j (°C)	T _{stg} (°C)	V _F (V) Max.		I _n (μA) Max.		C _T (pF) Max.		trr (ns) Max.			
								I _F (mA)	V _R (V)	I _R (μA)	V _R (V)	f (MHz)	V _R (V)	I _F (mA)			
RLS245	250	220	625	200	1000	175	-65~+175	1.5	200	10	220	3	0	1	75	I _F = - I _R = 20mA	LL-34

(Unit : mm)

USM	LL-34

●JEDEC Standard

< Absolute maximum ratings >

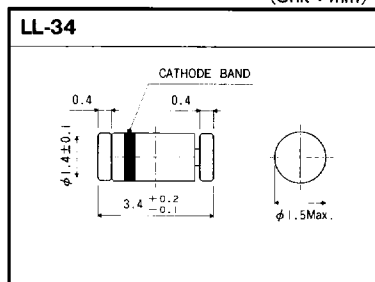
Part No.	V_{RM} (V)	V_R (V)	I_{FM} (mA)	I_O (mA)	I_F (mA)	I_{FSM} 1 μ s (A)	P (mW)	T _j (°C)	T _{opr} (°C)	T _{stg} (°C)	Package
RLS4148	100	75	450	150	200	2	500	200	-65~+200	-65~+200	LL-34
RLS4149	100	75	450	150	200	2	500	200	-65~+200	-65~+200	LL-34
RLS4150	50	50	600	200	250	4	500	200	-65~+200	-65~+200	LL-34
RLS4151	75	50	450	150	200	2	500	200	-65~+200	-65~+200	LL-34
RLS4152	40	30	450	150	200	2	500	200	-65~+200	-65~+200	LL-34
RLS4153	75	50	450	150	200	2	500	200	-65~+200	-65~+200	LL-34
RLS4154	35	25	450	150	200	2	500	200	-65~+200	-65~+200	LL-34
RLS4446	100	75	450	150	200	2	500	200	-65~+200	-65~+200	LL-34
RLS4447	100	75	450	150	200	2	500	200	-65~+200	-65~+200	LL-34
RLS4448	100	75	450	150	200	2	500	200	-65~+200	-65~+200	LL-34
RLS4449	100	75	450	150	200	2	500	200	-65~+200	-65~+200	LL-34
RLS4450	40	30	600	200	250	4	500	200	-65~+200	-65~+200	LL-34
RLS4454	75	50	450	150	200	2	500	200	-65~+200	-65~+200	LL-34
RLS4606	85	70	600	200	250	4	500	200	-65~+200	-65~+200	LL-34

< Electrical characteristics >

Part No.	V _F (V)												BV (V) Min.		I _R (μA) Max.				C _T (pF)	t _{rr} (ns)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Note : V_F : upper, Min. : lower, Max.

(Unit : mm)



●Product Designation (Ex.)

When ordering specify the part No. and packaging specifications.

1 S S 3 5 5 T E - 1 7

Part No.

Packaging specification code

Package	Code	Symbol hole side	Quantity/Package (pcs)
LL-34	TE-17	Cathode	3,000
	TE-11	Cathode	2,500
	TE-12	Anode	10,000
	TE11A	Cathode	2,000
	TE12A	Anode	2,500
	TE-15	Cathode	2,000
	TE-16	Anode	2,500
	TE11C	Cathode	2,500