

Di Switching Diodes <Surface Mounted Types>

■ 7828999 0007769 73T ■ RHM

Switching diodes are contained in various packages having no lead, 2-pin mold, or in other packages. High speed type, low leak type and high voltage type are available for specific applications.

● High-speed Switching Diodes

Type	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)	V _R (V)	f (MHz)	V _R (V)	I _F (mA)					
ISS332	40	35	225	100	400	125	-55~125	1.2	100	0.5	35	3	0.5	1	4	6	10	DSM
New ISS353	90	80	225	100	400	125	-55~125	1.2	100	0.5	80	3	0.5	1	4	6	10	USM
New ISS354	55	50	225	100	400	125	-55~125	1.2	100	0.5	50	3	0.5	1	4	6	10	USM
ISS355	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

Type	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) 1μs	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)	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

Type	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 (nA) Max.		C _T (pF) Max.		trr (ns) Max.				
								I _F (mA)	V _R (V)	V _R (V)	f (MHz)	V _R (V)	I _F (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

Type	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)	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	DSM

● JEDEC Standard

■ 7828999 0007770 451 ■ RHM

< Absolute maximum ratings >

Type	V _{RM} (V)	V _R (V)	I _{FM} (mA)	I _o (mA)	I _F (mA)	I _{FSM} 1μs (A)	P (mW)	T _J (°C)	Topr (°C)	Tstg (°C)	Package
RLS4 148	100	75	450	150	200	2	500	200	-65~200	-65~200	LL-34
RLS4 149	100	75	450	150	200	2	500	200	-65~200	-65~200	LL-34
RLS4 150	50	50	600	200	250	4	500	200	-65~200	-65~200	LL-34
RLS4 151	75	50	450	150	200	2	500	200	-65~200	-65~200	LL-34
RLS4 152	40	30	450	150	200	2	500	200	-65~200	-65~200	LL-34
RLS4 153	75	50	450	150	200	2	500	200	-65~200	-65~200	LL-34
RLS4 154	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 >

Type	V _F (V)												BV (V) Min.		I _R (μA) Max.		C _T (pF)	trr (ns)		
													@ 5 μA	@ 100 μA	@ 25°C				V _R =0 f=1MHz	V _R =6V I _F =10mA R=100Ω
	@ 0.1mA	@ 0.25mA	@ 1mA	@ 2mA	@ 5mA	@ 10mA	@ 20mA	@ 30mA	@ 50mA	@ 100mA	@ 200mA	@ 250mA			V _R (V)	V _R (V)				
RLS4 148	/	/	/	/	/	1.0	/	/	/	/	/	/	75	100	0.025 5.0	20 75	50.0	20	4	4
RLS4 149	/	/	/	/	/	1.0	/	/	/	/	/	/	-	100	0.025 5.0	20 75	50.0	20	2	4
RLS4 150	/	/	0.54 0.62	/	/	0.66 0.74	/	/	0.76 0.86	0.82 0.92	0.87 1.0	/	-	50	0.1	50	100.0	50	2.5	4
RLS4 151	/	/	/	/	/	/	/	/	1.0	/	/	/	75	-	0.05	50	50.0	50	2	2
RLS4 152	0.49 0.55	0.53 0.59	0.59 0.67	0.62 0.70	/	0.70 0.81	0.74 0.88	/	/	/	/	/	40	-	0.05	30	50.0	30	2	2
RLS4 153	0.49 0.55	0.53 0.59	0.59 0.67	0.62 0.70	/	0.70 0.81	0.74 0.88	/	/	/	/	/	75	-	0.05	50	50.0	50	2	2
RLS4 154	/	/	/	/	/	/	/	1.0	/	/	/	/	35	-	0.1	25	100.0	25	4	2
RLS4446	/	/	/	/	/	/	1.0	/	/	/	/	/	-	100	0.025 5.0	20 75	50.0	20	4	4
RLS4447	/	/	/	/	/	/	1.0	/	/	/	/	/	-	100	0.025 5.0	20 75	50.0	20	2	4
RLS4448	/	/	/	/	0.62 0.72	/	/	/	/	1.0	/	/	-	100	0.025 5.0	20 75	50.0	20	4	4
RLS4449	/	/	/	/	0.63 0.73	/	/	/	/	1.0	/	/	-	100	0.025 5.0	20 75	50.0	20	2	4
RLS4450	0.42 0.54	/	0.52 0.64	/	/	0.64 0.72	/	/	0.80 0.92	/	1.0	/	40	-	0.05	30	50.0	30	4	4
RLS4454	/	/	/	/	/	1.0	/	/	/	/	/	/	75	-	0.1	50	100.0	50	2	2
RLS4606	0.43 0.55	/	0.54 0.66	/	/	0.65 0.77	/	/	0.74 0.86	0.79 0.92	0.86 1.0	1.1	-	85	0.1 0.25	50 70	25.0	50 (100°C)	2.5	4

Note) 1.V_F: upper, Min.: lower, Max.