

# Switching Diodes

High speed, ultra-high speed, high withstand voltage, low leakage and high voltage in DO-35, DO-34 and ultra-mini glass packages help in selecting the package that is most suitable for mounting on the PCB. 1N series for overseas standards is also available.

## High-speed Switching Diodes

Absolute maximum ratings (Ta=25°C)

Part No.	Absolute maximum ratings (Ta=25°C)							Electrical characteristics (Ta=25°C)								Package		
	V <sub>RM</sub> (V)	V <sub>R</sub> (V)	I <sub>FM</sub> (mA)	I <sub>o</sub> (mA)	I <sub>surge</sub> (mA) 1s	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) Max.		I <sub>R</sub> (μA) Max.		C <sub>T</sub> (pF) Max.		trr (ns) Max.				
								I <sub>F</sub> (mA)	V <sub>R</sub> (V)	V <sub>R</sub> (V)	I <sub>R</sub> (μA)	V <sub>R</sub> (V)	f (MHz)	V <sub>R</sub> (V)	I <sub>F</sub> (mA)			
1S2471	90	80	400	130	600	175	-65~+175	1.2	100	0.5	80	2	0.5	1	4	6	10	DO-35
1S2472	55	50	350	120	500	175	-65~+175	1.2	100	0.5	50	2	0.5	1	4	6	10	DO-35
1S2473	40	35	300	110	400	175	-65~+175	1.2	100	0.5	35	3	0.5	1	4	6	10	DO-35
1S2787	40	35	70	50	200	125	-65~+125	0.9	5	1.0	35	3	1	1	3	6	5	DO-35
1SS41	100	75	400	130	600	175	-65~+175	1.0	10	0.5	20	4	0	1	4	6	10	DO-35
1SS130	100	75	400	130	600	175	-65~+175	1.0	10	0.5	20	4	0	1	4	6	10	DO-34
1SS131	90	80	400	130	600	175	-65~+175	1.2	100	0.5	80	2	0.5	1	4	6	10	DO-34
1SS132	55	50	350	120	500	175	-65~+175	1.2	100	0.5	50	2	0.5	1	4	6	10	DO-34
1SS133	40	35	300	110	400	175	-65~+175	1.2	100	0.5	35	3	0.5	1	4	6	10	DO-34
1SS134	40	35	70	50	200	125	-65~+125	0.9	5	1.0	35	3	1	1	3	6	5	DO-34
1SS252	90	80	400	130	600	175	-65~+175	1.2	100	0.5	80	2	0.5	1	4	6	10	USD
1SS253	55	50	350	120	500	175	-65~+175	1.2	100	0.5	50	2	0.5	1	4	6	10	USD
1SS254	40	35	300	110	400	175	-65~+175	1.2	100	0.5	35	3	0.5	1	4	6	10	USD

## Ultra High-speed Switching Diodes

Part No.	Absolute maximum ratings (Ta=25°C)							Electrical characteristics (Ta=25°C)								Package		
	V <sub>RM</sub> (V)	V <sub>R</sub> (V)	I <sub>FM</sub> (mA)	I <sub>o</sub> (mA)	I <sub>surge</sub> (mA) 1 μs	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) Max.		I <sub>R</sub> (μA) Max.		C <sub>T</sub> (pF) Max.		trr (ns) Max.				
								I <sub>F</sub> (mA)	V <sub>R</sub> (V)	V <sub>R</sub> (V)	I <sub>R</sub> (μA)	V <sub>R</sub> (V)	f (MHz)	V <sub>R</sub> (V)	I <sub>F</sub> (mA)			
1SS92	75	65	600	200	4000	175	-65~+175	1.0	100	0.5	65	3	0	1	2	6	10	DO-35 (SC-40)
1SS93	55	50	600	200	4000	175	-65~+175	1.0	100	0.5	50	3	0	1	2	6	10	DO-35 (SC-40)
1SS94	40	35	600	200	4000	175	-65~+175	1.0	100	0.5	35	3	0	1	2	6	10	DO-35 (SC-40)
1SS136	75	65	600	200	4000	175	-65~+175	1.0	100	0.5	65	3	0	1	2	6	10	DO-34
1SS137	55	50	600	200	4000	175	-65~+175	1.0	100	0.5	50	3	0	1	2	6	10	DO-34
1SS138	40	35	600	200	4000	175	-65~+175	1.0	100	0.5	35	3	0	1	2	6	10	DO-34

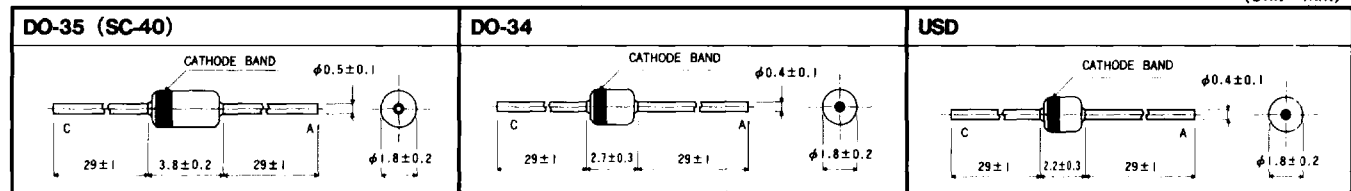
## Low-leakage Switching Diodes

Part No.	Absolute maximum ratings (Ta=25°C)							Electrical characteristics (Ta=25°C)								Package		
	V <sub>RM</sub> (V)	V <sub>R</sub> (V)	I <sub>FM</sub> (mA)	I <sub>o</sub> (mA)	I <sub>surge</sub> (mA) 1s	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) Max.		I <sub>R</sub> (μA) Max.		C <sub>T</sub> (pF) Max.		trr (ns) Max.				
								I <sub>F</sub> (mA)	V <sub>R</sub> (V)	V <sub>R</sub> (V)	I <sub>R</sub> (μA)	V <sub>R</sub> (V)	f (MHz)	V <sub>R</sub> (V)	I <sub>F</sub> (mA)			
1SS139	90	80	400	130	600	175	-65~+175	1.2	100	0.02	30	5	0.5	1	50	6	10	DO-35 (SC-40)
1SS140	55	50	350	120	500	175	-65~+175	1.2	100	0.01	25	5	0.5	1	50	6	10	DO-35 (SC-40)
1SS141	40	35	300	110	400	175	-65~+175	1.2	100	0.01	20	5	0.5	1	50	6	10	DO-35 (SC-40)
1SS290	90	80	400	130	600	175	-65~+175	1.2	100	0.02	30	5	0.5	1	50	6	10	DO-34
1SS291	55	50	350	120	500	175	-65~+175	1.2	100	0.01	25	5	0.5	1	50	6	10	DO-34
1SS292	40	35	300	110	400	175	-65~+175	1.2	100	0.01	20	5	0.5	1	50	6	10	DO-34

## High-voltage Switching Diodes

Part No.	Absolute maximum ratings (Ta=25°C)							Electrical characteristics (Ta=25°C)								Package		
	V <sub>RM</sub> (V)	V <sub>R</sub> (V)	I <sub>FM</sub> (mA)	I <sub>o</sub> (mA)	I <sub>surge</sub> (mA) 1s	T <sub>j</sub> (°C)	T <sub>stg</sub> (°C)	V <sub>F</sub> (V) Max.		I <sub>R</sub> (μA) Max.		C <sub>T</sub> (pF) Max.		trr (ns) Max.				
								I <sub>F</sub> (mA)	V <sub>R</sub> (V)	V <sub>R</sub> (V)	I <sub>R</sub> (μA)	V <sub>R</sub> (V)	f (MHz)	V <sub>R</sub> (V)	I <sub>F</sub> (mA)			
1SS142	300	250	625	200	1000	175	-65~+175	1.0	100	0.5	250	10	0	1	400	6	10	DO-35
1SS143	250	200	625	200	1000	175	-65~+175	1.0	100	0.5	200	10	0	1	400	6	10	DO-35
1SS144	200	150	625	200	1000	175	-65~+175	1.0	100	0.5	150	10	0	1	400	6	10	DO-35
1SS145	300	250	625	200	1000	175	-65~+175	1.0	100	0.5	250	10	0	1	400	6	10	DO-34
1SS146	250	200	625	200	1000	175	-65~+175	1.0	100	0.5	200	10	0	1	400	6	10	DO-34
1SS147	200	150	625	200	1000	175	-65~+175	1.0	100	0.5	150	10	0	1	400	6	10	DO-34
1SS244	250	220	625	200	1000	175	-65~+175	1.5	200	10	220	3	0	1	75	I <sub>F</sub> = -I <sub>R</sub> = 20mA		DO-34
1SS245	250	220	625	200	1000	175	-65~+175	1.5	200	10	220	3	0	1	75	I <sub>F</sub> = -I <sub>R</sub> = 20mA		DO-35

(Unit : mm)



## Product Designation

- When ordering, specify the type.
- Check each code against the tables shown below.
- Fill a space with the next character.

Package	Bulk : blank
DO-35	Radial taping
DO-34	Axial taping
USD	Forming

## Packaging



Part No.