



**Safety Standard Certificate for Photocoupler**

**PS2514, PS256x, PS2561A, PS2561B, PS2561D,  
PS2571**



● **UL Certificate**

Standard      UL 1577

File No.      E72422 Vol. 1 Sec. 10

Note)

Safety standards were certificated as former NEC Electronics Corporation.

When customer want to apply to safety standards, above company name should be used.

H.TAKAHASHI

Group Manager  
Optical Device Engineering  
Technical Marketing Department  
Compound Semiconductor Devices Business Division  
Analog & Power Devices Business Unit  
Renesas Electronics Corporation

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D E S C R I P T I O N

## PRODUCT COVERED:

USR, Double Protection - Optical isolated switches, Types 2561, 2562, 2565, 2566; may be followed by L, L1, L2 and/or -1, -2, -3, -4; may be followed by -V, may have a prefix of "PS."

USR, Double Protection - Optical isolated switches, Type 2571; may be followed by L, L1, L2; followed by -1 or -4; may have a prefix of "PS"

USR, Double Protection - Optical isolated switches, Type 2561A; may be followed by L, L1, L2; may be followed by -1; may have a prefix of "PS."

USR, Double Protection - Optical isolated switches, Type 2561B; may be followed by L, L1, L2; may be followed by -1; may have a prefix of "PS."

USR, Double Protection - Optical isolated switches, Type 2561D; may be followed by L, L1, L2; may be followed by -1; may have a prefix of "PS."

USR, Double Protection - Optical isolated switches, Type 2561F; may be followed by L, L1, L2; may be followed by -1; may be followed by -E3, -F3; may be followed by -V; may have a prefix of "PS."

USR, Double Protection - Optical isolated switches Type 2514; may be followed by L; may be followed by -1; may have a prefix of "PS."

## ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

These devices are optically coupled isolating switches with gallium arsenide light emitting diodes optically coupled to photo detectors. The solid state portion of these devices is encapsulated in a silicon or epoxy compound. The light emitting diode and detector are separated by an insulating window. Internal "chips" are provided with terminals molded into the enclosure.

Use - For use only in products where the acceptability of the combination is determined by Underwriters Laboratories Inc.

USR indicates this product was investigated under the UL Standard for Safety for Optical Isolators, UL 1577, Fourth Edition, revised 2000-05-10.

Conditions of Acceptability - Each device shall be reviewed with respect to the following conditions of acceptability:

1. The capability of the device to control a load has not been investigated.
2. These devices should be installed in a suitable end product enclosure.
3. The maximum operating (ambient) temperature, as noted in the ratings table, shall not be exceeded
4. For single protection devices, the insulation to the case has not been evaluated. For double protection devices, the insulation to the case has been evaluated to the isolation voltage specified in the ratings table.
5. In addition to meeting single protection requirements, double protection optical isolators have also been investigated for use in up to 250 V, 50/60 Hz circuits in audio, video, and similar equipment in applications in which breakdown of the optical isolator may result in a risk of fire, electrical shock, or injury to persons.

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RATINGS:

Type Designation	Line V ac	Current Max,		Isolation	
		mA, I <sub>F</sub> (mA)	I <sub>C</sub> (mA)	V AC	Temp. °C
PS2561-1	377	80/80		5000	-0 to 100
PS2561	377	80/80		5000	-0 to 100
PS2565-1	377	80/80		5000	-0 to 100
PS265	377	80/80		5000	-0 to 100
PS2561-2, -3, -4	377	80/80		5000	-0 to 100
PS2561	377	80/80		5000	-0 to 100
PS2565-2, -3, -4	377	80/80		5000	-0 to 100
PS2562-1	377	80/200		5000	-0 to 100
PS2562	377	80/200		5000	-0 to 100
PS2566-1	377	80/200		5000	-0 to 100
PS2566	377	80/200		5000	-0 to 100
PS2562-2, -3, -4	377	80/160		5000	-0 to 100
PS2566-2, -3, -4	377	80/160		5000	-0 to 100

## MAXIMUM RATINGS (at nominal operating temperature):

Model	Current (mA)		Power (mW)		Isolation Voltage (Vac)	Max Operating (Ambient) Temp (°C)	Max Junction Temp (°C)	Max Storage Temp (°C)
	Emitter	Sensor	Emitter	Sensor				
2571-1	50	40	70/ch	150/ch	5000	100	125	125
2571-4	50	40	55/ch	120/ch	5000	100	125	125
2561A	30	30	150	150	5000	100	125	125
2561B	80	50	150	150	5000	120	125	125
2561D	40	50	150	150	5000	110	125	150
2561F	30	50	150	150	5000	110	125	150
2514	30	20	150	150	5000	110	125	150