

**PS2514, PS2561, PS2561A, PS2561B,
PS2561D/DL, PS2561F, PS2562, PS2565,
PS2571**

● **UL Certificate**

Standard UL 1577

File No. E72422 (Vol. 1 Sec. 10)

This certification is approved as Renesas Electronics Corporation, but NEC logo is kept on the PKG marking and the label indication on the smallest packing for the time being.

Please contact sales agent or Renesas Electronics sales, regarding the date of change to Renesas Electronics indication.

本認定書はルネサスエレクトロニクス社にて取得していますが、当面 製品捺印及び最小梱包のラベル表示は旧NECロゴにて出荷致します。
尚、実施時期については別途お問合せ下さい。



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D E S C R I P T I O N

PRODUCT COVERED:

* USR, Double Protection - Optical isolated switches, Types 2514, 2561, 2561A, 2561B, 2561D, 2561F, 2562, 2565, 2566, 2571,; may be followed by **L**, **L1**, **L2 and/or -1**; may be followed by -E3, -E4, -F3, -F4; may be followed by -V; 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 V AC	Temp. °C
		mA, I _F (mA)	I _C (mA)		
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				
*2514	30	20	150	150	5000	100	125	150
*2561	80	80	150	150	5000	100	125	150
*2561A	50	30	150	150	5000	100	125	150
*2561B	80	50	150	150	5000	120	125	150
*2561D	40	50	150	150	5000	110	125	150
*2561F	30	50	150	150	5000	110	125	150
*2562	80	200	150	200	5000	100	125	150
*2565	120	50	150	150	5000	100	125	150
*2566	80	200	150	200	5000	100	125	150
*2571	50	40	70/ch	150/ch	5000	100	125	150

=Nomenclature of product covered Number=

*Model type number may have a prefix of "PS", may be followed by **L**, **L1**, **L2**

and/or -1 may be followed by **-E3**, **-E4**, **-F3**, **-F4**

and may be followed by **-V**.

L: lead bending type for surface mount

L1: lead bending type for long creepage distance

L2: lead bending type for long creepage distance for surface mount

E3, **E4**: ordering number of taping product; 1000pcs/reel

F3, **F4**: ordering number of taping product; 2000pcs/reel

V: VDE approved