

NEC

Safety Standard Certificate for Photocoupler

PS26xx, PS270x, PS271x



● UL Certificate

Standard
File No.

UL1577
E72422 (S) Vol.1 Sec.9



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D E S C R I P T I O NPRODUCT COVERED:

* Optical isolated switches, Types PS2601, PS2602, PS2603, PS2604, PS2605, PS2606, PS2607, PS2608, PS2621, PS2622, PS2625, PS2626; may be followed by L, L1, L2. Types PS2651, PS2652, PS2653, PS2654; may be followed by L2. Types 2701, 2701A, 2702, 2703, 2705, 2705A, 2706, 2707, 2711, 2715; may be followed by -1, -2, -4; may be followed by -E3, -E4, -F3, -F4, 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.

The following devices have been evaluated to the requirements for Double Protection, as defined in the Standard for Optical Isolators; UL 1577: PS2601, PS2602, PS2603, PS2604, PS2605, PS2606, PS2607, PS2608, PS2621, PS2622, PS2625, PS2626, PS2651, PS2652, PS2653, PS2654.

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

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

1. The short circuit interrupting capacity, or behavior under short circuit conditions, has not been evaluated for these devices. Accordingly, the end use circuit should contain suitable impedance to eliminate the need for such testing, or appropriate tests should be conducted.

4. The suitability of use when exposed to oil, chemicals and the like has not been determined by this investigation.
5. If a particular end use application requires evaluation of "as received" case material properties not contemplated under the scope of this investigation, such properties will have to be separately investigated. (For application data, see Ills.)
6. The suitability of the connections shall be determined in the end use application.
7. The capability of the device to control a load has not been investigated.
8. The suitability of the device to be mounted over dead metal or metal of opposite polarity has not been investigated.
9. The device is intended for factory installation in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

RATINGS:

Type Designation	Line V ac	Current Max, mA, I_F (mA), I_C (mA)	Isolation V ac	Temp. °C
PS2601, PS2602, PS2651, PS2652	377	80/50	5000	-0 app 100
PS2603, PS2604, PS2653, PS2654	377	80/200	5000	-0 app 100
PS2605, PS2606	377	80/50	5000	-0 app 100
PS2607, PS2608	377	80/200	5000	-0 app 100
PS2621, PS2622	377	150/50	5000	-0 app 100
PS2625, PS2626	377	200/50	5000	-0 app 100
PS2701, PS2705, PS2711, PS2715	377	50/80	3750	-0 app 100
PS2702, PS2706	377	50/200	3750	-0 app 100
PS2703, PS2707	377	50/30	3750	-0 app 100
*PS2701A, PS2705A	377	50/80	3750	-0 app 100

app = "approximately"

The junction temperature of the models described in this section is 125°C.