

NEC

Safety Standard Certificate for Photocoupler

PS2501A-1 (Made in Taiwan)



● UL Certificate

Standard
File No.

UL1577
E72422 (S) Vol.3 Sec.8



T. NAKANO

Group Manager
Sales Engineering Group Sales Division
NEC Compound Semiconductor Devices, Ltd.

May 13, 2003

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

Component - Optical Isolated Switches, Types: 2501A-1, 2501AL-1; may have a prefix of PS.

RATINGS:

MODEL NO.	CURRENT (mA)		POWER (mW)		ISOLATION VOLTAGE (ac)	STORAGE TEMP. (°C)	JUNCTION TEMP. (°C)	OPERATING TEMP. (°C)
	DIODE	DETECTOR	DIODE	DETECTOR				
2501A-1	30	30	150	150	5000	125	125	100
2501AL-1	30	30	150	150	5000	125	125	100

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.

Type 2501A-1 was tested to represent all types marked by laser.

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.
2. The device shall be installed in compliance with the enclosure, mounting, spacings, and segregation requirements of the ultimate application. No spacings are specified for the device.
3. The electrical and outer surface temperature ratings recorded below shall be acceptable in the ultimate application.
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.

CONSTRUCTION DETAILS:

General - The general design, shape and arrangement shall be as illustrated in the following photograph and descriptive pages. All dimensions are approximate.

Marking - Each device is marked with the manufacturer's name or trademark and model number. See ILL. 3 for Marking.

Model Differences - Models 2501AL-1 is identical to Models 2501A-1 except for lead bending variation.