

PHOTOCOUPLER

PS8501, PS8501L1, PS8501L2, PS8501L3

HIGH SPEED ANALOG OUTPUT TYPE 8 mm CREEPAGE 8-PIN PHOTOCOUPLER

–NEPOC Series–

DESCRIPTION

The PS8501, PS8501L1, PS8501L2 and PS8501L3 are 8-pin high speed photocouplers containing a GaAlAs LED on input side and a PN photodiode and a high speed amplifier transistor on output side on one chip. The PS8501 is in a plastic DIP (Dual In-line Package) with 8 mm creepage distance product.

The PS8501L1 is lead bending type for long creepage distance.

The PS8501L2 is lead bending type for long creepage distance (Gull-wing) for surface mount.

The PS8501L3 is lead bending type (Gull-wing) for surface mounting.

FEATURES

- Long creepage distance (8 mm MIN.: PS8501L1, PS8501L2)
- High supply voltage ($V_{CC} = 35 \text{ V MAX.}$)
- High speed response ($t_{PHL}, t_{PLH} = 0.8 \mu\text{s MAX.}$)
- High isolation voltage ($BV = 5\,000 \text{ Vr.m.s.}$)
- TTL, CMOS compatible with a resistor
- Ordering number of tape product: PS8501L2-E3: 1 000 pcs/reel
: PS8501L3-E3: 1 000 pcs/reel

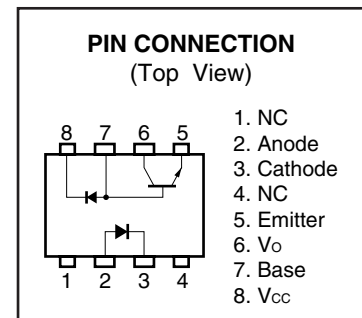
- Pb-Free product
- Safety standards

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- UL approved: No. E72422
- CSA approved: No. CA 101391 (CA5A, CAN/CSA-C22.2 60065, 60950)
- BSI approved: No. 8937, 8938
- SEMKO approved: No. 615433
- NEMKO approved: No. P06207243
- DEMKO approved: No. 314091
- FIMKO approved: No. FI 22827

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- DIN EN60747-5-2 (VDE0884 Part2) approved: No. 40019182 (Option)



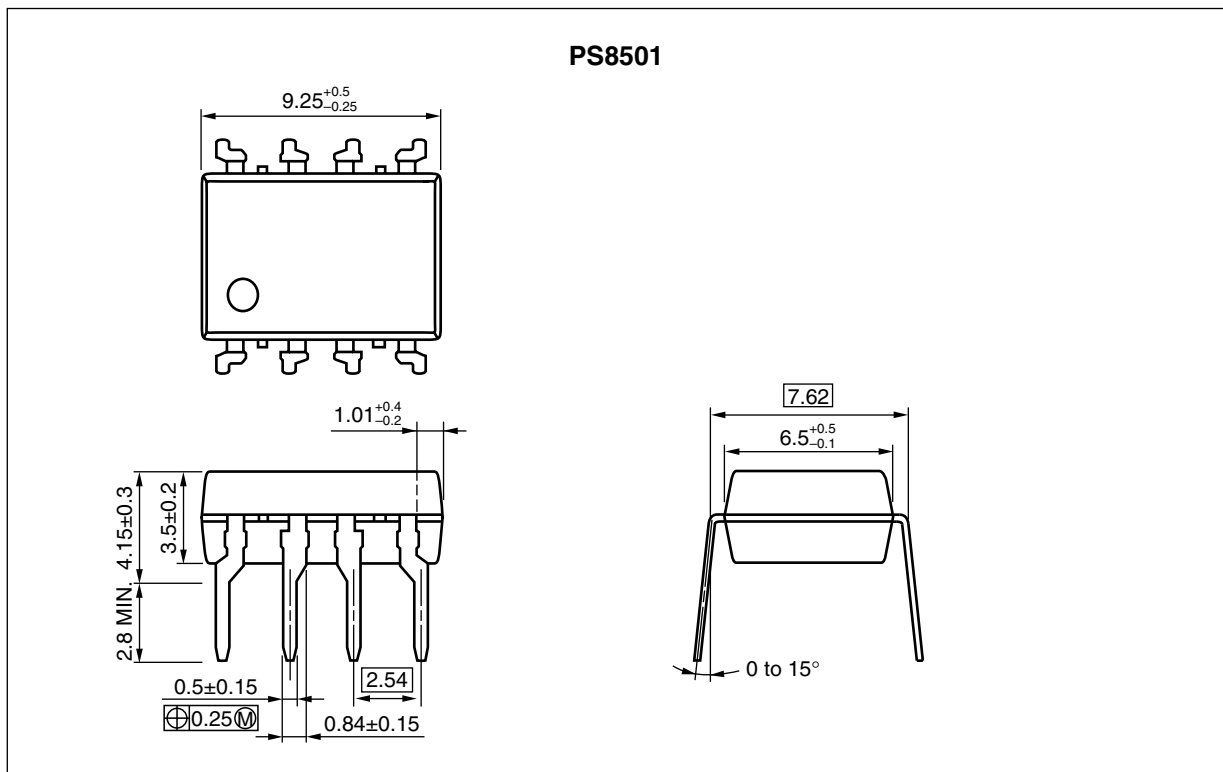
APPLICATIONS

- Interface for measurement or control equipment
- Substitutions for relays and pulse transformers
- Modem, communications device
- General purpose inverter

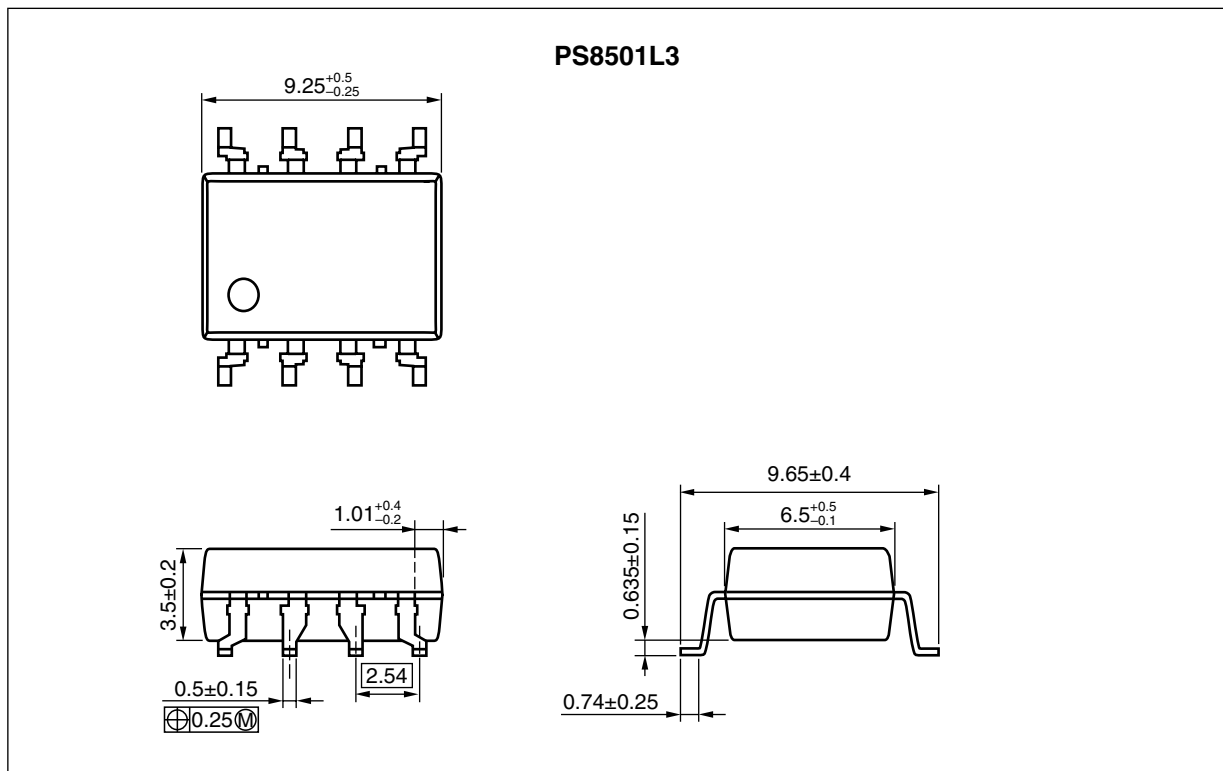
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<R> PACKAGE DIMENSIONS (UNIT: mm)

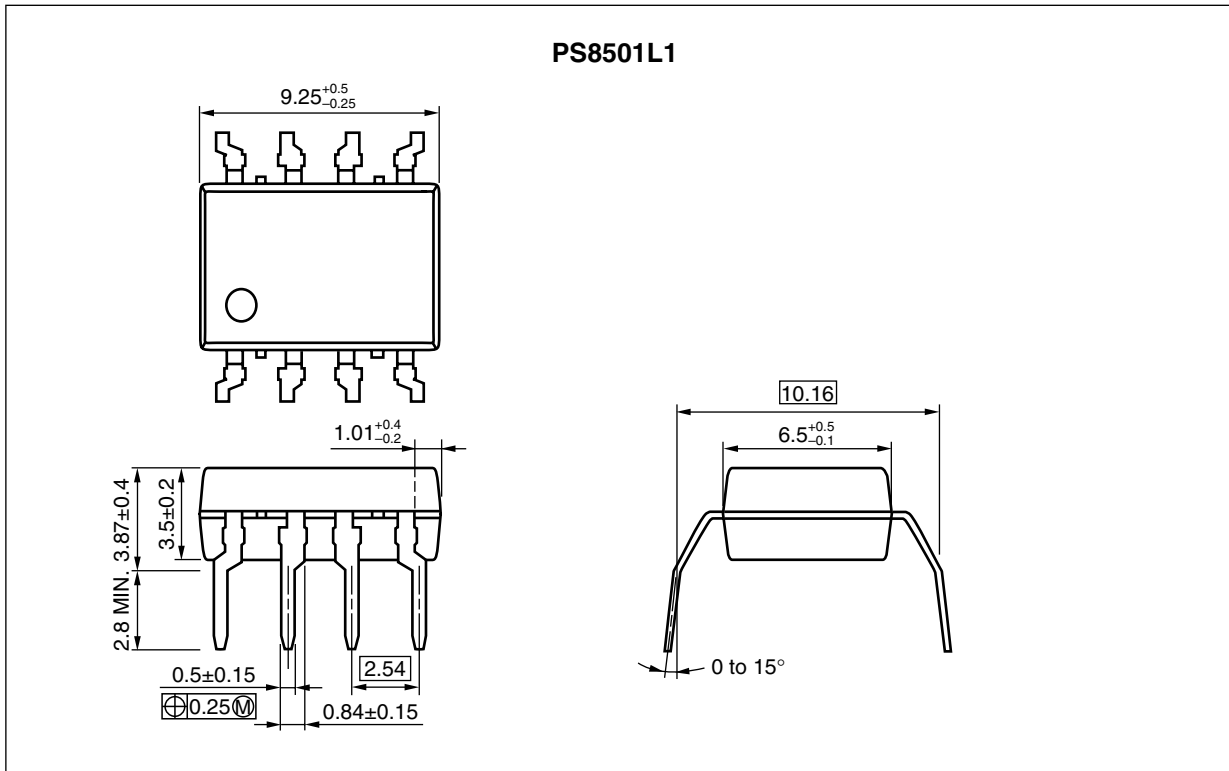
DIP Type



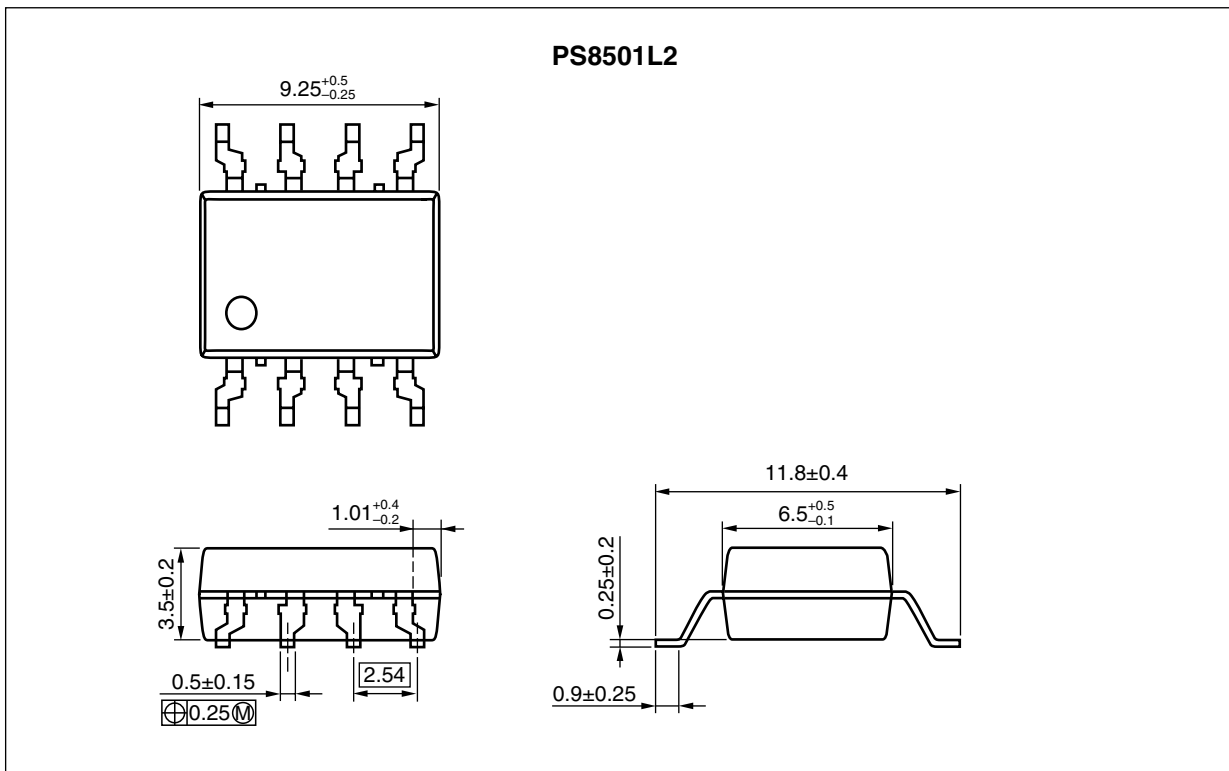
Lead Bending Type (Gull-wing) For Surface Mount



Lead Bending Type For Long Creepage Distance



Lead Bending Type For Long Creepage Distance (Gull-wing) For Surface Mount



PHOTOCOUPLER CONSTRUCTION

| Parameter | PS8501, PS8501L3 | PS8501L1, PS8501L2 |
|--------------------------------|------------------|--------------------|
| Air Distance (MIN.) | 7 mm | 8 mm |
| Outer Creepage Distance (MIN.) | 7 mm | 8 mm |
| Isolation Distance (MIN.) | 0.4 mm | 0.4 mm |

<R> MARKING EXAMPLE



ORDERING INFORMATION

| Part Number | Order Number | Solder Plating Specification | Packing Style | Safety Standard Approval | Application Part Number*1 | |
|---------------|------------------|------------------------------|------------------------------|--|---|----------|
| PS8501 | PS8501-AX | Pb-Free (Ni/Pd/Au) | Magazine case 50 pcs | Standard products (UL, CSA, BSI, SEMKO, NEMKO, DEMKO, FIMKO approved) DIN EN60747-5-2 (VDE0884 Part2) Approved (Option) | PS8501 | |
| PS8501L1 | PS8501L1-AX | | | | PS8501L1 | |
| PS8501L2 | PS8501L2-AX | | | | PS8501L2 | |
| PS8501L3 | PS8501L3-AX | | | | PS8501L3 | |
| PS8501L2-E3 | PS8501L2-E3-AX | | Embossed Tape 1 000 pcs/reel | | PS8501L2 | |
| PS8501L3-E3 | PS8501L3-E3-AX | | | | PS8501L3 | |
| PS8501-V | PS8501-V-AX | | Magazine case 50 pcs | | DIN EN60747-5-2 (VDE0884 Part2) Approved (Option) | PS8501 |
| PS8501L1-V | PS8501L1-V-AX | | | | | PS8501L1 |
| PS8501L2-V | PS8501L2-V-AX | | | | | PS8501L2 |
| PS8501L3-V | PS8501L3-V-AX | | | | | PS8501L3 |
| PS8501L2-V-E3 | PS8501L2-V-E3-AX | | Embossed Tape 1 000 pcs/reel | | | PS8501L2 |
| PS8501L3-V-E3 | PS8501L3-V-E3-AX | | | | | PS8501L3 |

*1 For the application of the Safety Standard, following part number should be used.

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C, unless otherwise specified)

| Parameter | | Symbol | Ratings | Unit |
|---------------------------------|---------------------------------|------------------|-------------|---------|
| Diode | Forward Current ^{*1} | I _F | 25 | mA |
| | Reverse Voltage | V _R | 5 | V |
| Detector | Supply Voltage | V _{CC} | 35 | V |
| | Output Voltage | V _O | 35 | V |
| | Output Current | I _O | 8 | mA |
| | Power Dissipation ^{*2} | P _C | 100 | mW |
| Isolation Voltage ^{*3} | | BV | 5 000 | Vr.m.s. |
| Operating Ambient Temperature | | T _A | -55 to +100 | °C |
| Storage Temperature | | T _{stg} | -55 to +125 | °C |

*1 Reduced to 0.33 mA/°C at T_A = 70°C or more.

*2 Reduced to 2.0 mW/°C at T_A = 75°C or more.

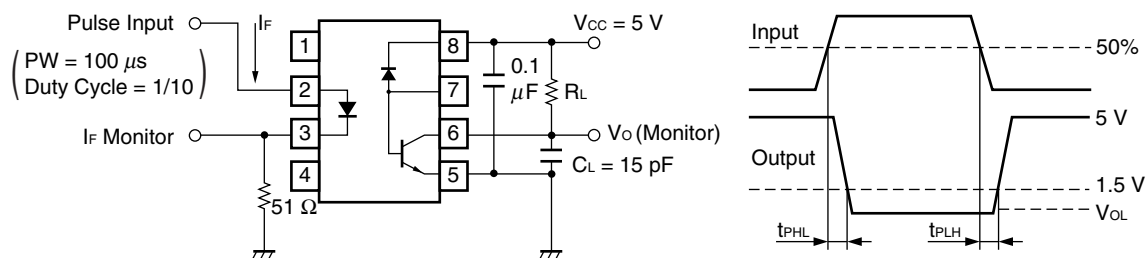
*3 AC voltage for 1 minute at T_A = 25°C, RH = 60% between input and output.
Pins 1-4 shorted together, 5-8 shorted together.

ELECTRICAL CHARACTERISTICS (TA = 25°C)

| Parameter | | Symbol | Conditions | MIN. | TYP. ^{*1} | MAX. | Unit |
|-----------|--|----------------------------------|--|------------------|--------------------|------|-------|
| Diode | Forward Voltage | V _F | I _F = 16 mA | | 1.7 | 2.2 | V |
| | Reverse Current | I _R | V _R = 3 V | | | 10 | μA |
| | Forward Voltage Temperature Coefficient | ΔV _F /ΔT _A | I _F = 16 mA | | -2.1 | | mV/°C |
| | Terminal Capacitance | C _i | V = 0 V, f = 1 MHz | | 30 | | pF |
| Detector | High Level Output Current | I _{OH} (1) | I _F = 0 mA, V _{CC} = V _O = 5.5 V | | 3 | 500 | nA |
| | High Level Output Current | I _{OH} (2) | I _F = 0 mA, V _{CC} = V _O = 35 V | | | 100 | μA |
| | Low Level Output Voltage | V _{OL} | I _F = 16 mA, V _{CC} = 4.5 V, I _O = 2.4 mA | | 0.15 | 0.4 | V |
| | Low Level Supply Current | I _{CCL} | I _F = 16 mA, V _O = Open, V _{CC} = 35 V | | 150 | | μA |
| | High Level Supply Current | I _{CCH} | I _F = 0 mA, V _O = Open, V _{CC} = 35 V | | 0.01 | 1 | μA |
| | DC Current Gain | h _{FE} | V _O = 5 V, I _O = 3 mA | | 65 | | |
| Coupled | Current Transfer Ratio | CTR | I _F = 16 mA, V _{CC} = 4.5 V, V _O = 0.4 V | 15 | | | % |
| | Isolation Resistance | R _{I-O} | V _{I-O} = 1 kV _{DC} | 10 ¹¹ | | | Ω |
| | Isolation Capacitance | C _{I-O} | V = 0 V, f = 1 MHz | | 0.7 | | pF |
| | Propagation Delay Time (H → L) ^{*2} | t _{PHL} | I _F = 16 mA, V _{CC} = 5 V, R _L = 1.9 kΩ | | 0.22 | 0.8 | μs |
| | Propagation Delay Time (L → H) ^{*2} | t _{PLH} | I _F = 16 mA, V _{CC} = 5 V, R _L = 1.9 kΩ | | 0.35 | 0.8 | μs |

*1 Typical values at TA = 25°C

*2 Test circuit for propagation delay time



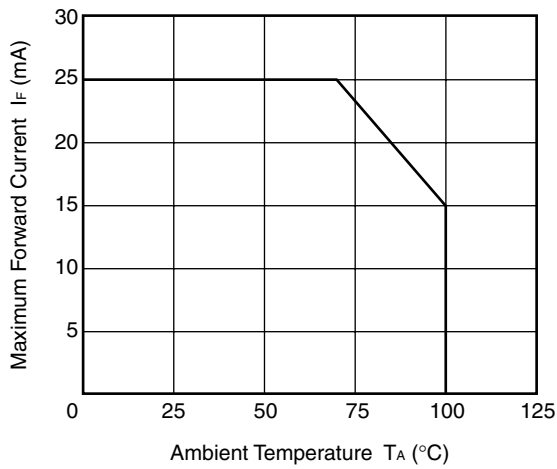
Remark CL includes probe and stray wiring capacitance.

USAGE CAUTIONS

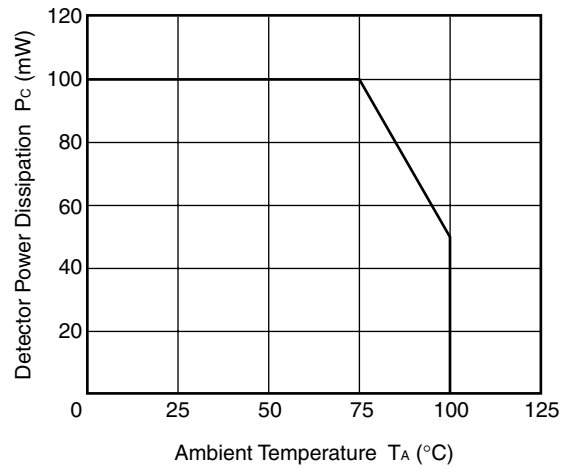
1. This product is weak for static electricity by designed with high-speed integrated circuit so protect against static electricity when handling.
2. By-pass capacitor of more than 0.1 μF is used between V_{CC} and GND near device. Also, ensure that the distance between the leads of the photocoupler and capacitor is no more than 10 mm.
3. Pins 1, 4 (which is an NC^{*1} pin) can either be connected directly to the GND pin on the LED side or left open. Unconnected pins should not be used as a bypass for signals or for any other similar purpose because this may degrade the internal noise environment of the device.
 - *1 NC: Non-Connection (No Connection)
4. Avoid storage at a high temperature and high humidity.

<R> TYPICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$, unless otherwise specified)

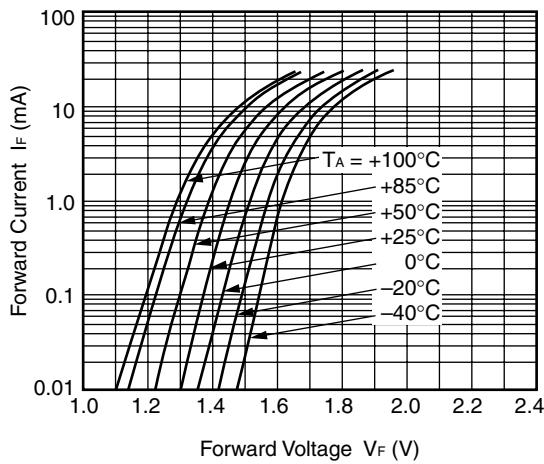
MAXIMUM FORWARD CURRENT vs. AMBIENT TEMPERATURE



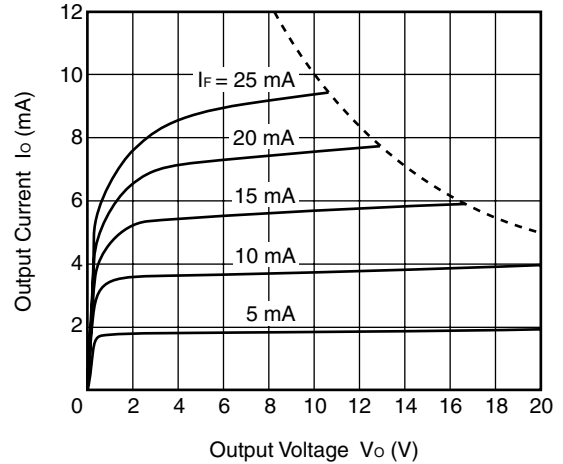
DETECTOR POWER DISSIPATION vs. AMBIENT TEMPERATURE



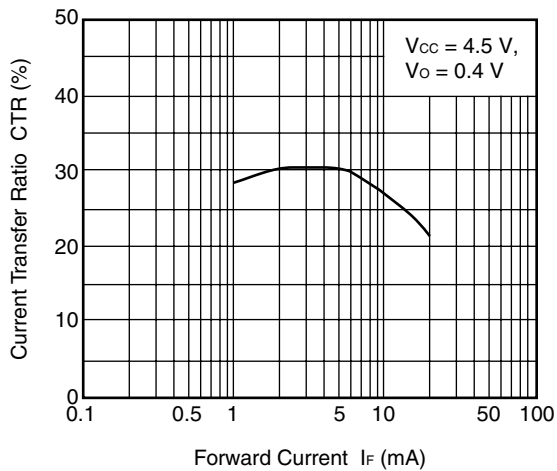
FORWARD CURRENT vs. FORWARD VOLTAGE



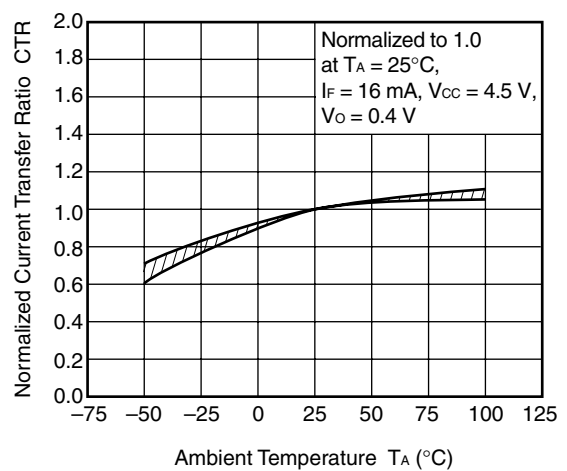
OUTPUT CURRENT vs. OUTPUT VOLTAGE



CURRENT TRANSFER RATIO vs. FORWARD CURRENT



NORMALIZED CURRENT TRANSFER RATIO vs. AMBIENT TEMPERATURE

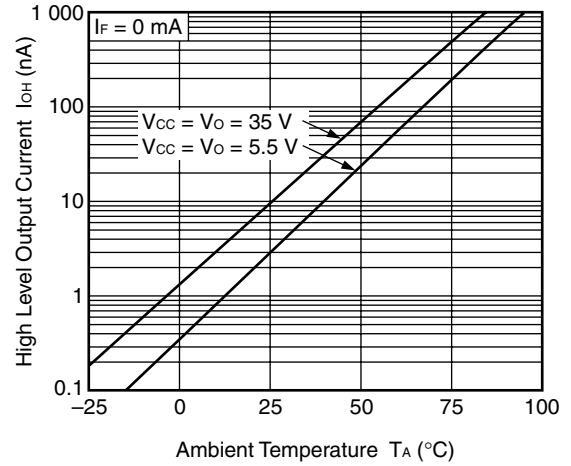


Remark The graphs indicate nominal characteristics.

OUTPUT VOLTAGE vs. FORWARD CURRENT



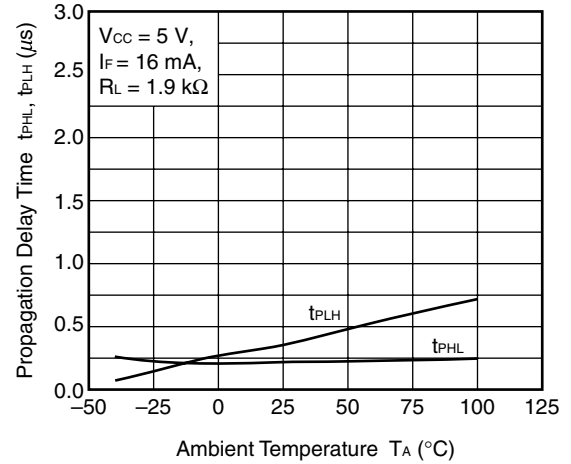
HIGH LEVEL OUTPUT CURRENT vs. AMBIENT TEMPERATURE



PROPAGATION DELAY TIME, vs. LOAD RESISTANCE



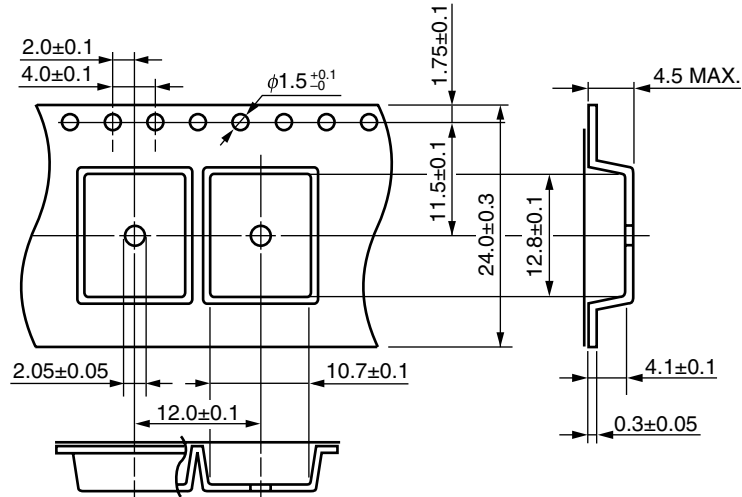
PROPAGATION DELAY TIME, vs. AMBIENT TEMPERATURE



Remark The graphs indicate nominal characteristics.

TAPING SPECIFICATIONS (UNIT: mm)

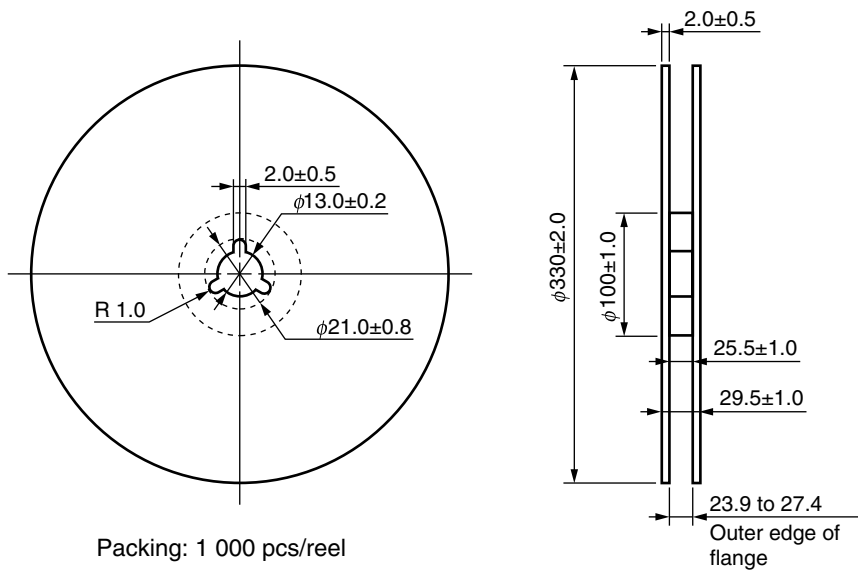
Outline and Dimensions (Tape)



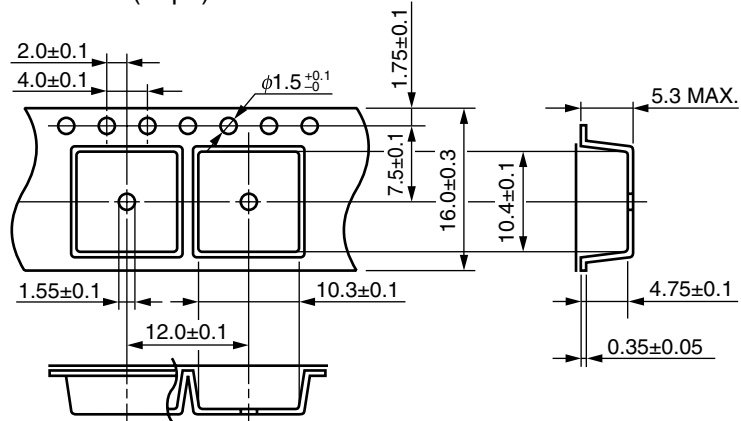
Tape Direction



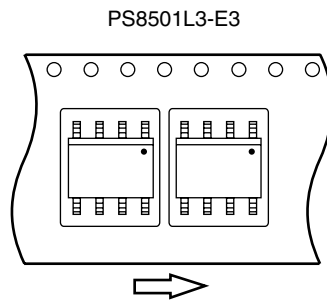
Outline and Dimensions (Reel)



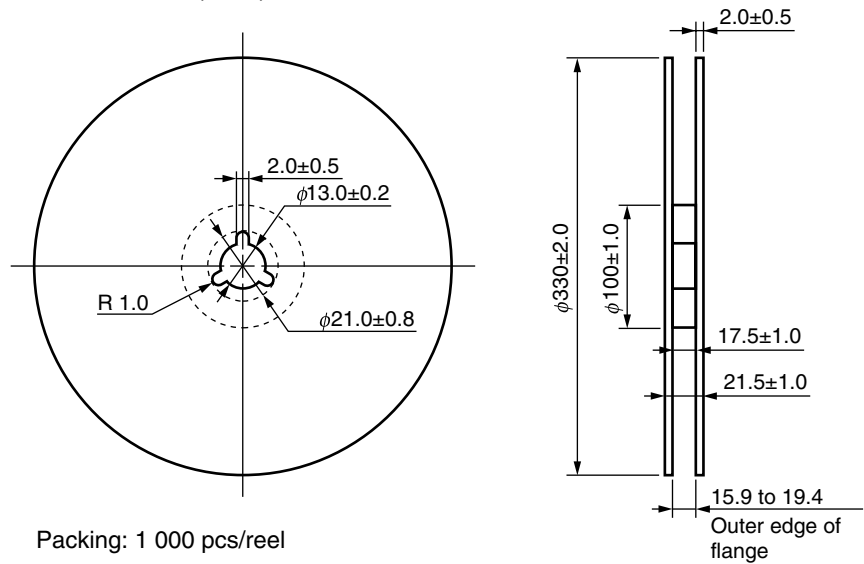
Outline and Dimensions (Tape)



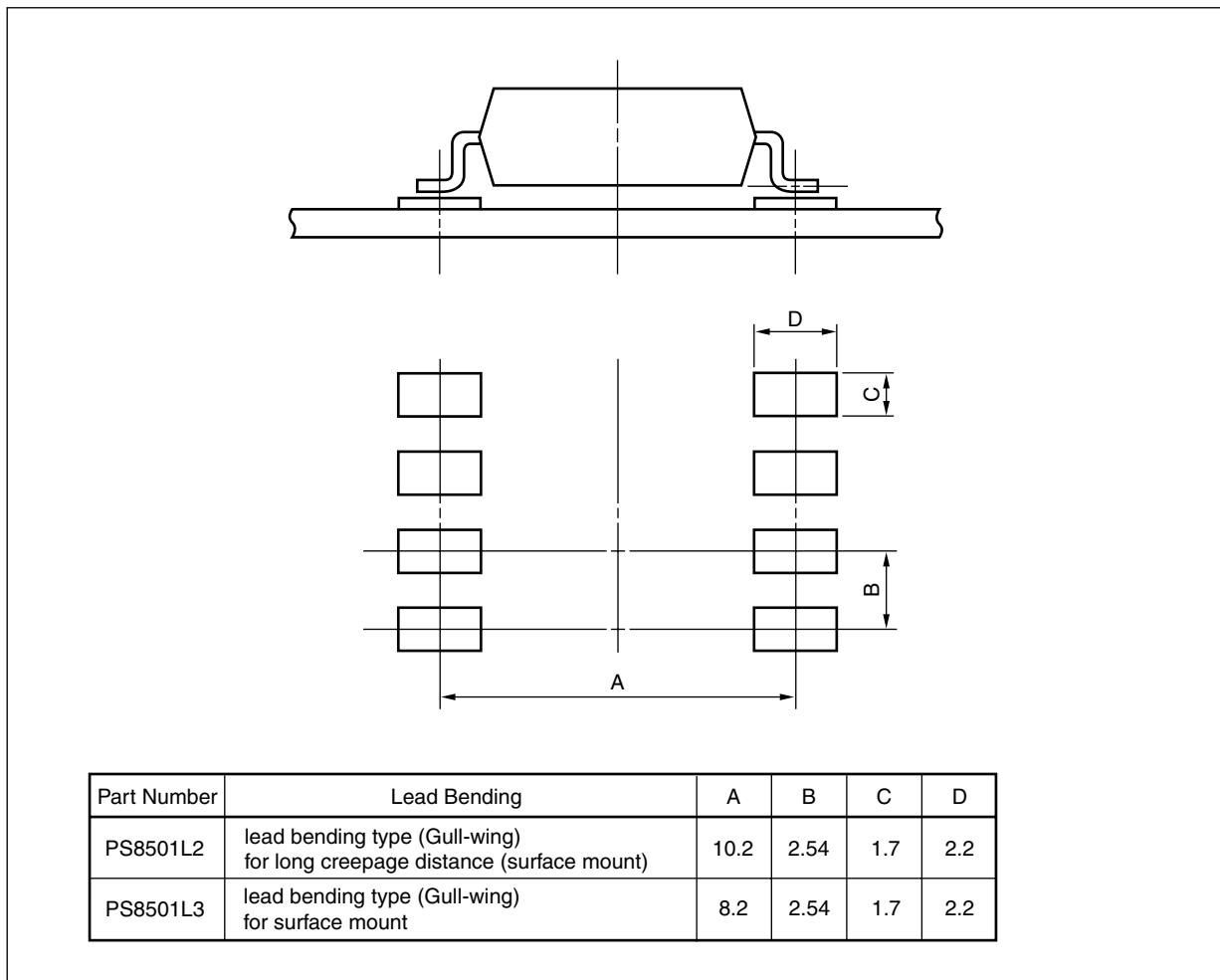
Tape Direction



Outline and Dimensions (Reel)



RECOMMENDED MOUNT PAD DIMENSIONS (UNIT: mm)



NOTES ON HANDLING

1. Recommended soldering conditions

(1) Infrared reflow soldering

- Peak reflow temperature 260°C or below (package surface temperature)
- Time of peak reflow temperature 10 seconds or less
- Time of temperature higher than 220°C 60 seconds or less
- Time to preheat temperature from 120 to 180°C 120±30 s
- Number of reflows Three
- Flux Rosin flux containing small amount of chlorine (The flux with a maximum chlorine content of 0.2 Wt% is recommended.)

Recommended Temperature Profile of Infrared Reflow



(2) Wave soldering

- Temperature 260°C or below (molten solder temperature)
- Time 10 seconds or less
- Preheating conditions 120°C or below (package surface temperature)
- Number of times One (Allowed to be dipped in solder including plastic mold portion.)
- Flux Rosin flux containing small amount of chlorine (The flux with a maximum chlorine content of 0.2 Wt% is recommended.)

(3) Soldering by soldering iron

- Peak temperature (lead part temperature) 350°C or below
- Time (each pins) 3 seconds or less
- Flux Rosin flux containing small amount of chlorine (The flux with a maximum chlorine content of 0.2 Wt% is recommended.)

(a) Soldering of leads should be made at the point 1.5 to 2.0 mm from the root of the lead.

(b) Please be sure that the temperature of the package would not be heated over 100°C.

(4) Cautions

- Fluxes

Avoid removing the residual flux with freon-based and chlorine-based cleaning solvent.

2. Cautions regarding noise

Be aware that when voltage is applied suddenly between the photocoupler's input and output or between V_{cc} -emitters at startup, the output side may enter the on state, even if the voltage is within the absolute maximum ratings.

<R> SPECIFICATION OF VDE MARKS LICENSE DOCUMENT

| Parameter | Symbol | Speck | Unit |
|--|--|-----------------------------|----------------------------|
| Climatic test class (IEC 60068-1/DIN EN 60068-1) | | 55/100/21 | |
| Dielectric strength maximum operating isolation voltage Test voltage (partial discharge test, procedure a for type test and random test) $U_{pr} = 1.5 \times U_{IORM}, P_d < 5 \text{ pC}$ | U_{IORM} U_{pr} | 1 130 1 695 | V_{peak} V_{peak} |
| Test voltage (partial discharge test, procedure b for all devices) $U_{pr} = 1.875 \times U_{IORM}, P_d < 5 \text{ pC}$ | U_{pr} | 2 119 | V_{peak} |
| Highest permissible overvoltage | U_{TR} | 8 000 | V_{peak} |
| Degree of pollution (DIN EN 60664-1 VDE0110 Part 1) | | 2 | |
| Comparative tracking index (IEC 60112/DIN EN 60112 (VDE 0303 Part 11)) | CTI | 175 | |
| Material group (DIN EN 60664-1 VDE0110 Part 1) | | III a | |
| Storage temperature range | T_{stg} | -55 to +125 | °C |
| Operating temperature range | T_A | -55 to +100 | °C |
| Isolation resistance, minimum value $V_{IO} = 500 \text{ V dc at } T_A = 25^\circ\text{C}$ $V_{IO} = 500 \text{ V dc at } T_A \text{ MAX. at least } 100^\circ\text{C}$ | Ris MIN. Ris MIN. | 10^{12} 10^{11} | Ω Ω |
| Safety maximum ratings (maximum permissible in case of fault, see thermal derating curve) Package temperature Current (input current I_F , $P_{si} = 0$) Power (output or total power dissipation) Isolation resistance $V_{IO} = 500 \text{ V dc at } T_A = T_{si}$ | T_{si} I_{si} P_{si} Ris MIN. | 175 400 700 10^9 | °C mA mW Ω |

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| | | |
|----------------|---------------|--|
| Caution | GaAs Products | <p>This product uses gallium arsenide (GaAs). GaAs vapor and powder are hazardous to human health if inhaled or ingested, so please observe the following points.</p> <ul style="list-style-type: none">• Follow related laws and ordinances when disposing of the product. If there are no applicable laws and/or ordinances, dispose of the product as recommended below.<ol style="list-style-type: none">1. Commission a disposal company able to (with a license to) collect, transport and dispose of materials that contain arsenic and other such industrial waste materials.2. Exclude the product from general industrial waste and household garbage, and ensure that the product is controlled (as industrial waste subject to special control) up until final disposal.• Do not burn, destroy, cut, crush, or chemically dissolve the product.• Do not lick the product or in any way allow it to enter the mouth. |
|----------------|---------------|--|

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April 1st, 2010
Renesas Electronics Corporation

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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