

HIGH ISOLATION VOLTAGE AC INPUT RESPONSE TYPE MULTI PHOTOCOUPLER SERIES

–NEPOC Series–

DESCRIPTION

The PS2565-1 is optically coupled isolators containing GaAs light emitting diodes and an NPN silicon phototransistor.

The PS2565-1 is in a plastic DIP (Dual In-line Package) and the PS2565L-1 is lead bending type (Gull-wing) for surface mount.

The PS2565L1-1 is lead bending type for long creepage distance.

The PS2565L2-1 is lead bending type for long creepage distance (Gull-wing) for surface mount.

FEATURES

- AC input response
- High Isolation voltage ($BV = 5\,000\text{ V}_{r.m.s.}$)
- High collector to emitter voltage ($V_{CE0} = 80\text{ V}$)
- High current transfer ratio ($CTR = 200\% \text{ TYP.}$)
- High-speed switching ($t_r = 3\ \mu\text{s TYP.}$, $t_f = 5\ \mu\text{s TYP.}$)
- <R> • Ordering number of taping product: PS2565L-1-F3 : 2 000 pcs/reel
: PS2565L2-1-E3: 1 000 pcs/reel
- <R> • Safety standards
 - UL approved: No. E72422
 - CSA approved: No. CA 101391 (CA5A, CAN/CSA-C22.2 60065, 60950)
 - BSI approved: No. 7112/7420
 - SEMKO approved: No. 903238
 - NEMKO approved: No. P09210868
 - DEMKO approved: No. 314999
 - FIMKO approved: No. FI 25119
 - DIN EN60747-5-2 (VDE0884 Part2) approved: No. 40008862 (Option)

PIN CONNECTION (Top View)



APPLICATIONS

- Telephone/FAX.
- FA/OA equipment
- Programmable logic controller

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<R> PACKAGE DIMENSIONS (UNIT : mm)

DIP Type



Long Creepage Distance



Lead Bending Type (Gull-Wing)



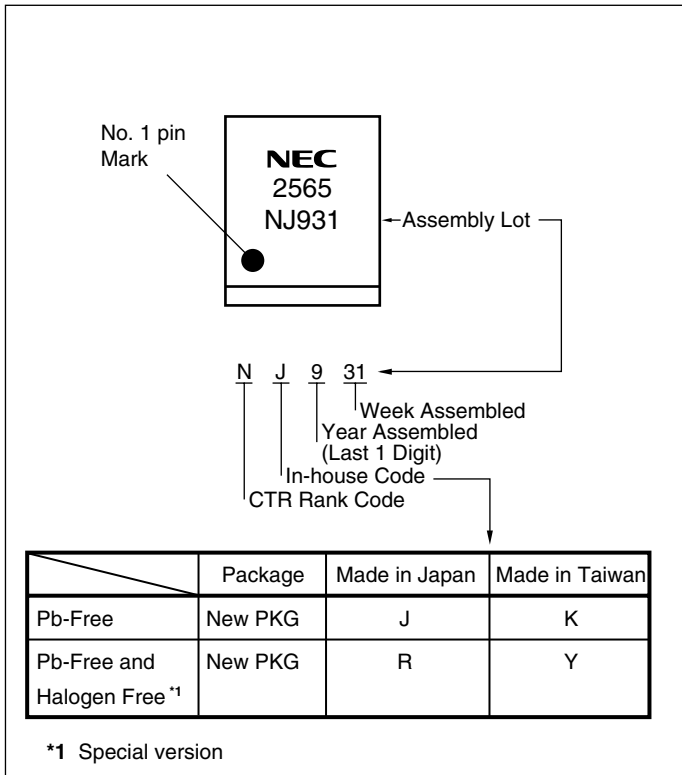
Long Creepage Distance (Gull-Wing)



<R> PHOTOCOUPLER CONSTRUCTION

| Parameter | Unit (MIN.) |
|-------------------------|-------------|
| Air Distance | 7 mm |
| Outer Creepage Distance | 7 mm |
| Inner Creepage Distance | 4 mm |
| Isolation Thickness | 0.4 mm |

<R> MARKING EXAMPLE



<R> **ORDERING INFORMATION**

| Part Number | Order Number | Solder Plating Specification | Packing Style | Safety Standard Approval | Application Part Number ^{*1} |
|-----------------|--------------------|--|------------------------------|---|---------------------------------------|
| PS2565-1 | PS2565-1-A | Pb-Free | Magazine case 100 pcs | Standard products (UL, CSA, BSI, SEMKO, NEMKO, DEMKO, FIMKO approved) | PS2565-1 |
| PS2565L-1 | PS2565L-1-A | | | | |
| PS2565L1-1 | PS2565L1-1-A | | | | |
| PS2565L2-1 | PS2565L2-1-A | | | | |
| PS2565L-1-F3 | PS2565L-1-F3-A | | Embossed Tape 2 000 pcs/reel | | |
| PS2565L2-1-E3 | PS2565L2-1-E3-A | | Embossed Tape 1 000 pcs/reel | | |
| PS2565-1-V | PS2565-1-V-A | | Magazine case 100 pcs | DIN EN60747-5-2 (VDE0884 Part2) approved products (option) | |
| PS2565L-1-V | PS2565L-1-V-A | | | | |
| PS2565L1-1-V | PS2565L1-1-V-A | | | | |
| PS2565L2-1-V | PS2565L2-1-V-A | | | | |
| PS2565L-1-V-F3 | PS2565L-1-V-F3-A | | Embossed Tape 2 000 pcs/reel | | |
| PS2565L2-1-V-E3 | PS2565L2-1-V-E3-A | | Embossed Tape 1 000 pcs/reel | | |
| PS2565-1 | PS2565-1Y-A | Special version (Pb-Free and Halogen Free) | Magazine case 100 pcs | Standard products (UL, CSA, BSI, SEMKO, NEMKO, DEMKO, FIMKO approved) | PS2565-1 |
| PS2565L-1 | PS2565L-1Y-A | | | | |
| PS2565L1-1 | PS2565L1-1Y-A | | | | |
| PS2565L2-1 | PS2565L2-1Y-A | | | | |
| PS2565L-1-F3 | PS2565L-1Y-F3-A | | Embossed Tape 2 000 pcs/reel | | |
| PS2565L2-1-E3 | PS2565L2-1Y-E3-A | | Embossed Tape 1 000 pcs/reel | | |
| PS2565-1-V | PS2565-1Y-V-A | | Magazine case 100 pcs | DIN EN60747-5-2 (VDE0884 Part2) approved products (option) | |
| PS2565L-1-V | PS2565L-1Y-V-A | | | | |
| PS2565L1-1-V | PS2565L1-1Y-V-A | | | | |
| PS2565L2-1-V | PS2565L2-1Y-V-A | | | | |
| PS2565L-1-V-F3 | PS2565L-1Y-V-F3-A | | Embossed Tape 2 000 pcs/reel | | |
| PS2565L2-1-V-E3 | PS2565L2-1Y-V-E3-A | | Embossed Tape 1 000 pcs/reel | | |

*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 (DC) | I _F | 80 | mA |
| | Power Dissipation Derating | ΔP _D /°C | 1.5 | mW/°C |
| | Power Dissipation | P _D | 150 | mW |
| | Peak Forward Current ¹ | I _{FP} | 1 | A |
| Transistor | Collector to Emitter Voltage | V _{CEO} | 80 | V |
| | Emitter to Collector Voltage | V _{ECO} | 7 | V |
| | Collector Current | I _C | 50 | mA |
| | Power Dissipation Derating | ΔP _C /°C | 1.5 | mW/°C |
| | Power Dissipation | P _C | 150 | mW |
| Isolation Voltage ² | | BV | 5 000 | Vr.m.s. |
| Operating Ambient Temperature | | T _A | -55 to +100 | °C |
| Storage Temperature | | T _{stg} | -55 to +150 | °C |

*1 PW = 100 μs, Duty Cycle = 1%

*2 AC voltage for 1 minute at T_A = 25°C, RH = 60% between input and output.
Pins 1-2 shorted together, 3-4 shorted together.

ELECTRICAL CHARACTERISTICS (T_A = 25°C)

| Parameter | | Symbol | Conditions | MIN. | TYP. | MAX. | Unit |
|------------------------|--|----------------------|---|------------------|------|------|------|
| Diode | Forward Voltage | V _F | I _F = ±10 mA | | 1.17 | 1.4 | V |
| | Terminal Capacitance | C _t | V = 0 V, f = 1.0 MHz | | 100 | | pF |
| Transistor | Collector to Emitter Dark Current | I _{CEO} | V _{CE} = 80 V, I _F = 0 mA | | | 100 | nA |
| Coupled | Current Transfer Ratio (I _c /I _F) | CTR | I _F = ±5 mA, V _{CE} = 5 V | 80 | 200 | 400 | % |
| | CTR Ratio ¹ | CTR1/ CTR2 | I _F = 5 mA, V _{CE} = 5 V | 0.3 | 1.0 | 3.0 | |
| | Collector Saturation Voltage | V _{CE(sat)} | I _F = ±10 mA, I _c = 2 mA | | | 0.3 | V |
| | Isolation Resistance | R _{I-O} | V _{I-O} = 1.0 kV _{DC} | 10 ¹¹ | | | Ω |
| | Isolation Capacitance | C _{I-O} | V = 0 V, f = 1.0 MHz | | 0.5 | | pF |
| | Rise Time ² | t _r | V _{CC} = 10 V, I _c = 2 mA, R _L = 100 Ω | | 3 | | μs |
| Fall Time ² | t _f | | | 5 | | | |

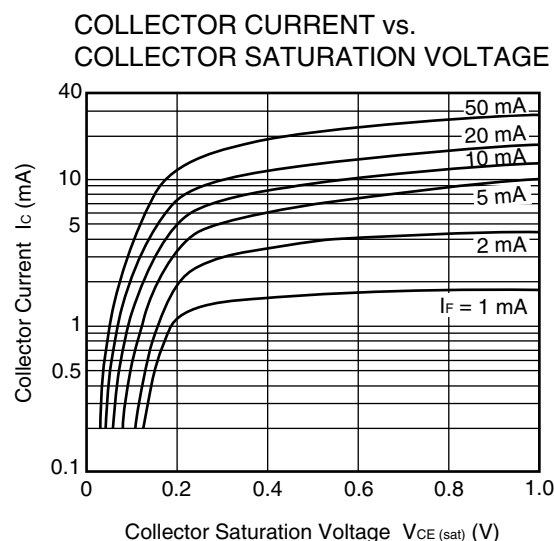
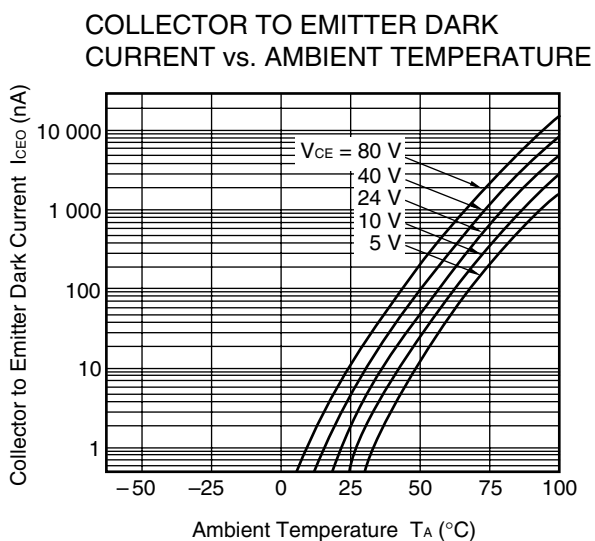
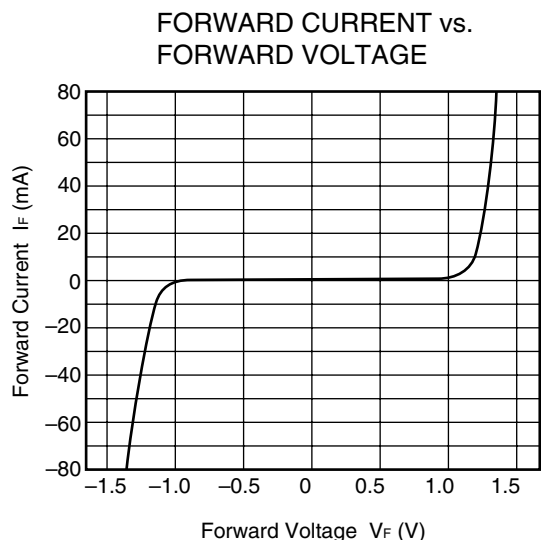
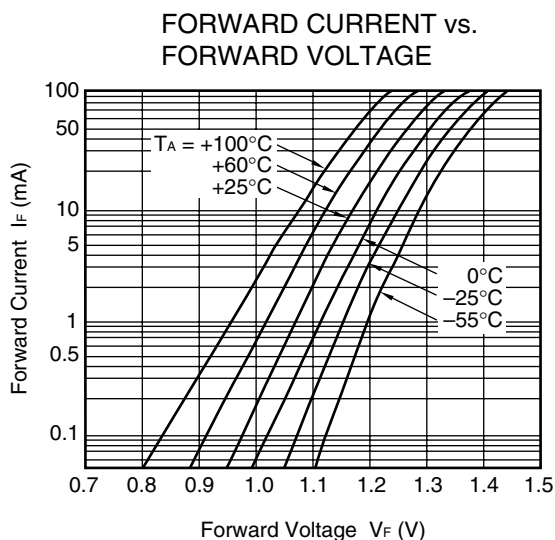
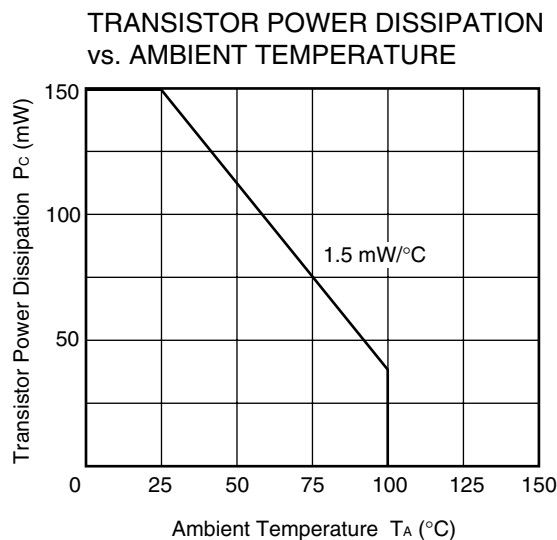
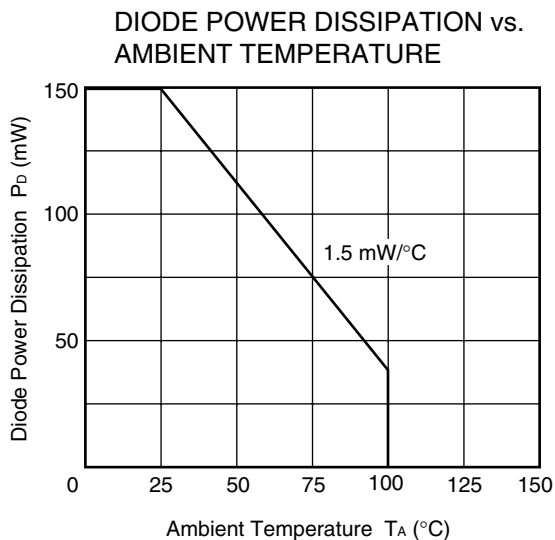
*1 CTR1 = I_{c1}/I_{F1}, CTR2 = I_{c2}/I_{F2}



*2 Test circuit for switching time

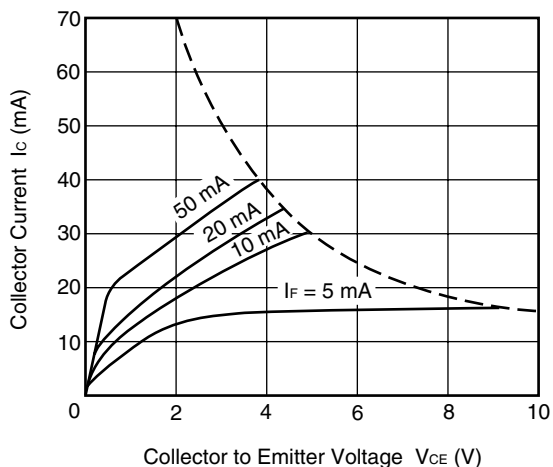


TYPICAL CHARACTERISTICS (TA = 25°C, unless otherwise specified)

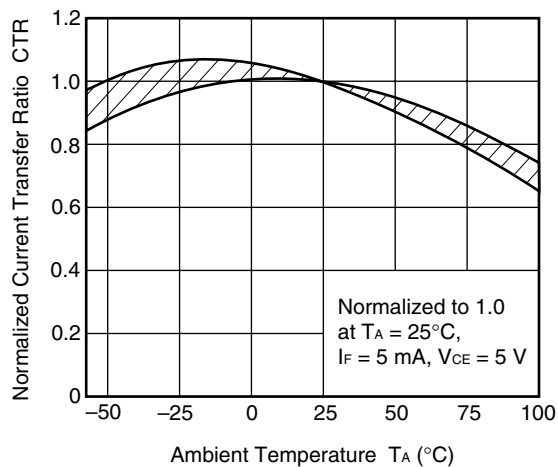


Remark The graphs indicate nominal characteristics.

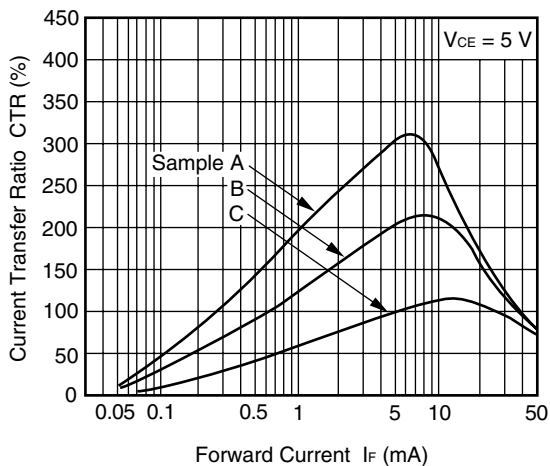
COLLECTOR CURRENT vs. COLLECTOR TO EMITTER VOLTAGE



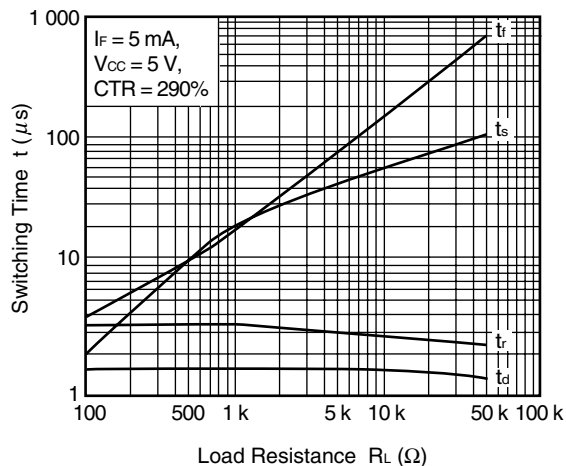
NORMALIZED CURRENT TRANSFER RATIO vs. AMBIENT TEMPERATURE



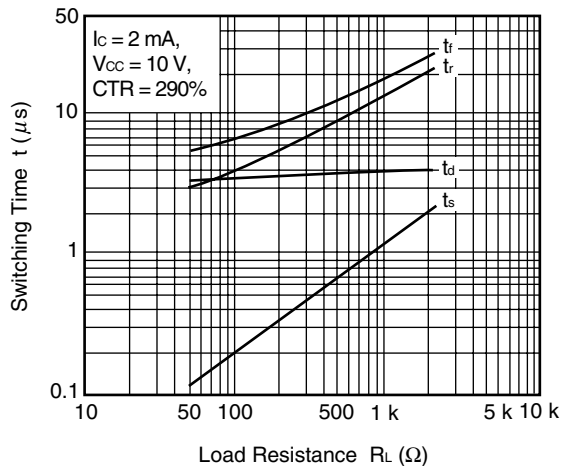
CURRENT TRANSFER RATIO vs. FORWARD CURRENT



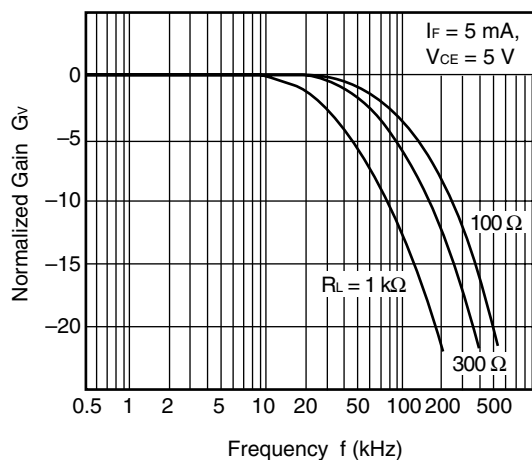
SWITCHING TIME vs. LOAD RESISTANCE



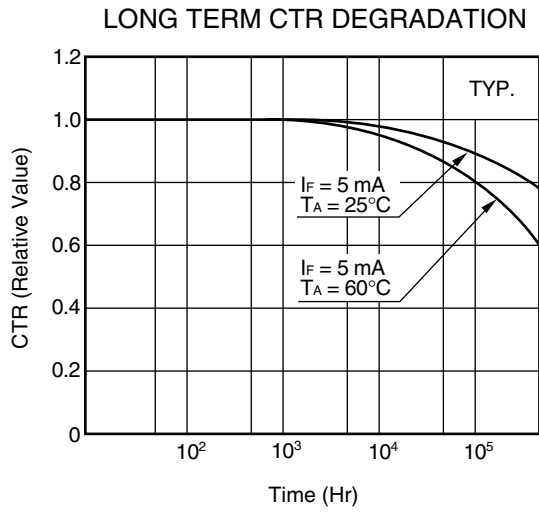
SWITCHING TIME vs. LOAD RESISTANCE



FREQUENCY RESPONSE



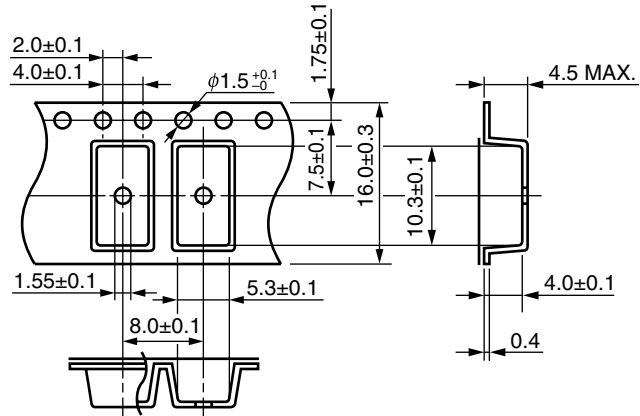
Remark The graphs indicate nominal characteristics.



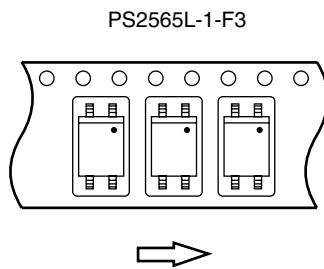
Remark The graph indicates nominal characteristics.

<R> TAPING SPECIFICATIONS (UNIT : mm)

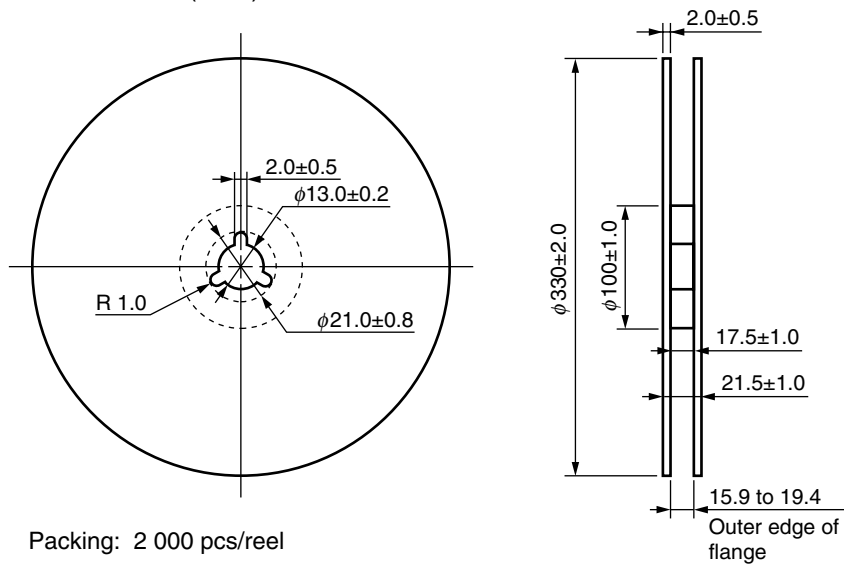
Outline and Dimesions (Tape)



Tape Direction



Outline and Dimensions (Reel)



Outline and Dimensions (Tape)



Tape Direction



Outline and Dimensions (Reel)



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 collector-emitters at startup, the output transistor may enter the on state, even if the voltage is within the absolute maximum ratings.

3. Measurement conditions of current transfer ratios (CTR), which differ according to photocoupler

Check the setting values before use, since the forward current conditions at CTR measurement differ according to product.

When using products other than at the specified forward current, the characteristics curves may differ from the standard curves due to CTR value variations or the like. This tendency may sometimes be obvious, especially below $I_F = 1$ mA.

Therefore, check the characteristics under the actual operating conditions and thoroughly take variations or the like into consideration before use.

USAGE CAUTIONS

1. Protect against static electricity when handling.
2. Avoid storage at a high temperature and high humidity.

<R> SPECIFICATION OF VDE MARKS LICENSE DOCUMENT

| Parameter | Symbol | Spec. | 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} | 890 1 335 | 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} | 1 669 | 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 +150 | °C |
| Operating temperature range | T_A | -55 to +100 | °C |
| Isolation resistance, minimum value $V_{IO} = 500 \text{ V dc at } T_A = 25^\circ\text{C}$ $V_{IO} = 500 \text{ V dc at } T_A \text{ MAX. at least } 100^\circ\text{C}$ | $R_{is \text{ MIN.}}$ $R_{is \text{ MIN.}}$ | 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} $R_{is \text{ MIN.}}$ | 175 400 700 10^9 | °C mA mW Ω |

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M8E0904E

| | |
|-------------------------------------|---|
| <p>Caution GaAs Products</p> | <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. |
|-------------------------------------|---|

To our customers,

Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: <http://www.renesas.com>

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

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[PS2565L1-1-A](#) [PS2565L-1-V-A](#) [PS2565-1-A](#) [PS2565L2-1-A](#) [PS2565L-1-A](#) [PS2565L1-1-V-A](#) [PS2565L-1-V-F3-A](#)
[PS2565L2-1-F3-A](#) [PS2565-1-V-A](#) [PS2565-1Y-A](#) [PS2565L1-1Y-A](#) [PS2565L1-1Y-V-A](#) [PS2565L-1-F3-A](#) [PS2565L2-](#)
[1Y-A](#) [PS2565L2-1Y-F3-A](#) [PS2565L2-1Y-V-A](#) [PS2565L-1Y-A](#) [PS2565L-1Y-F3-A](#) [PS2565L-1Y-V-A](#) [PS2565L-1Y-V-](#)
[F3-A](#) [PS2565L2-1-V-A](#) [PS2565L2-1-V-F3-A](#) [PS2565-1Y-V-A](#)



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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