



PHOTOCOUPLER

PS2565-1,PS2565L-1,PS2565L1-1,PS2565L2-1

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.

Ordering number of taping product: PS2565L-1-F3: 2 000 pcs/reel

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 Vr.m.s.)
- High collector to emitter voltage (VcEo = 80 V)
- High current transfer ratio (CTR = 200% TYP.)
- High-speed switching ($t_r = 3 \mu s$ TYP., $t_f = 5 \mu s$ TYP.)
- High-speed switching (tr = 3 μ s 1 YP., tr = 5 μ s 1 YP.)

: PS2565L2-1-E3: 1 000 pcs/reel

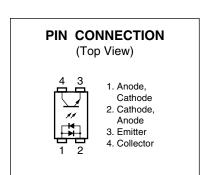
<R> • Safety standards

<R>

- 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)

APPLICATIONS

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

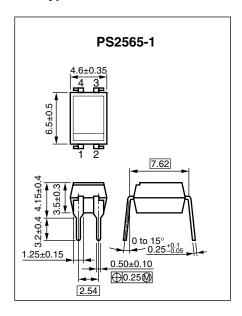


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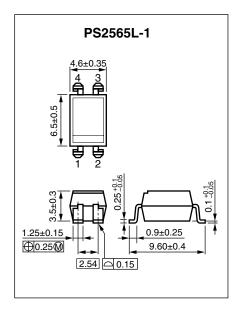


<R> PACKAGE DIMENSIONS (UNIT: mm)

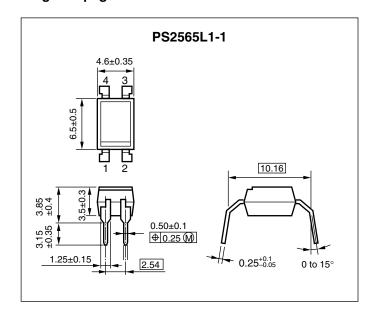
DIP Type



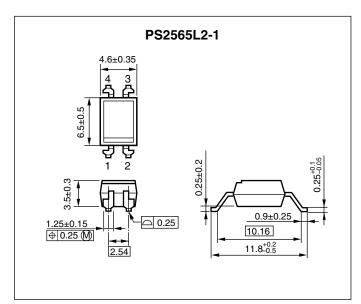
Lead Bending Type (Gull-Wing)



Long Creepage Distance



Long Creepage Distance (Gull-Wing)

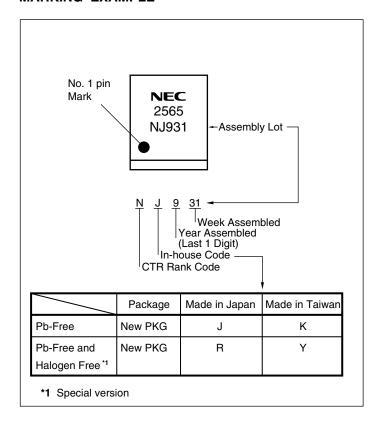


<R> PHOTOCOUPLER CONSTRUCTION

| 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 | PS2565-1 |
| PS2565L-1 | PS2565L-1-A | | | (UL, CSA, BSI, | |
| PS2565L1-1 | PS2565L1-1-A | | | SEMKO, NEMKO, | |
| PS2565L2-1 | PS2565L2-1-A | | | DEMKO, FIMKO | |
| PS2565L-1-F3 | PS2565L-1-F3-A | | Embossed Tape 2 000 pcs/reel | approved) | |
| 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 | |
| PS2565L-1-V | PS2565L-1-V-A | | | (VDE0884 Part2) | |
| PS2565L1-1-V | PS2565L1-1-V-A | | | approved products | |
| PS2565L2-1-V | PS2565L2-1-V-A | | | (option) | |
| 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 | Magazine case 100 pcs | Standard products | PS2565-1 |
| PS2565L-1 | PS2565L-1Y-A | (Pb-Free and | | (UL, CSA, BSI, | |
| PS2565L1-1 | PS2565L1-1Y-A | Halogen Free) | | SEMKO, NEMKO, | |
| PS2565L2-1 | PS2565L2-1Y-A | | | DEMKO, FIMKO | |
| PS2565L-1-F3 | PS2565L-1Y-F3-A | | Embossed Tape 2 000 pcs/reel | approved) | |
| 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 | |
| PS2565L-1-V | PS2565L-1Y-V-A | | | (VDE0884 Part2) | |
| PS2565L1-1-V | PS2565L1-1Y-V-A | | | approved products | |
| PS2565L2-1-V | PS2565L2-1Y-V-A | | | (option) | |
| 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 (TA = 25°C, unless otherwise specified)

| Parameter | | Symbol | Ratings | Unit |
|---------------------------------|------------------------------------|------------------|-------------|---------|
| Diode | Forward Current (DC) | lF | 80 | mA |
| | Power Dissipation Derating | ⊿P₀/°C | 1.5 | mW/°C |
| | Power Dissipation | Po | 150 | mW |
| | Peak Forward Current ^{*1} | IFP | 1 | Α |
| Transistor | Collector to Emitter Voltage | Vceo | 80 | V |
| | Emitter to Collector Voltage | VECO | 7 | V |
| | Collector Current | lc | 50 | mA |
| | Power Dissipation Derating | ⊿Pc/°C | 1.5 | mW/°C |
| | Power Dissipation | Pc | 150 | mW |
| Isolation Voltage ^{*2} | | BV | 5 000 | Vr.m.s. |
| Operating Ambient Temperature | | TA | -55 to +100 | °C |
| Storage Temperature | | T _{stg} | -55 to +150 | °C |

^{*1} PW = 100 μ s, Duty Cycle = 1%

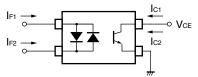
^{*2} AC voltage for 1 minute at $T_A = 25^{\circ}C$, RH = 60% between input and output. Pins 1-2 shorted together, 3-4 shorted together.



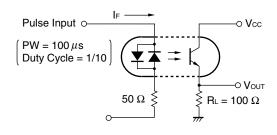
ELECTRICAL CHARACTERISTICS (TA = 25°C)

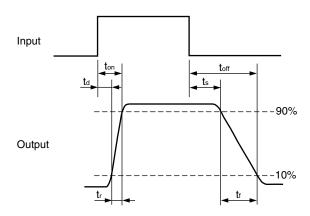
| | Parameter | Symbol | Conditions | MIN. | TYP. | MAX. | Unit |
|------------|--------------------------------------|---------------|--|------------------|------|------|------|
| Diode | Forward Voltage | VF | I _F = ±10 mA | | 1.17 | 1.4 | ٧ |
| | Terminal Capacitance | Ct | V = 0 V, f = 1.0 MHz | | 100 | | pF |
| Transistor | Collector to Emitter Dark Current | Iceo | VcE = 80 V, IF = 0 mA | | | 100 | nA |
| Coupled | Current Transfer Ratio | CTR | I _F = ±5 mA, V _{CE} = 5 V | 80 | 200 | 400 | % |
| | CTR Ratio" | CTR1/ CTR2 | IF = 5 mA, VcE = 5 V | 0.3 | 1.0 | 3.0 | |
| | Collector Saturation Voltage | VCE (sat) | I _F = ±10 mA, I _C = 2 mA | | | 0.3 | V |
| | Isolation Resistance | Ri-o | Vi-o = 1.0 kVpc | 10 ¹¹ | | | Ω |
| | Isolation Capacitance | Cı-o | V = 0 V, f = 1.0 MHz | | 0.5 | | pF |
| | Rise Time ^{*2} | tr | Vcc = 10 V, Ic = 2 mA, RL = 100 Ω | | 3 | | μs |
| | Fall Time ^{*2} | tr | | | 5 | | |

*1 CTR1 = Ic_1/I_{F1} , CTR2 = Ic_2/I_{F2}

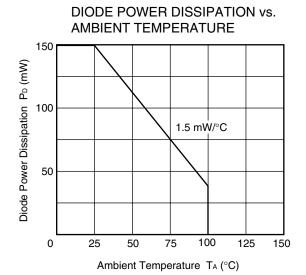


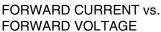
*2 Test circuit for switching time

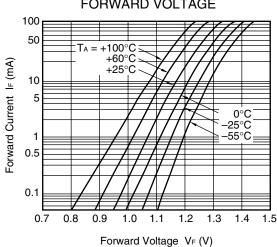




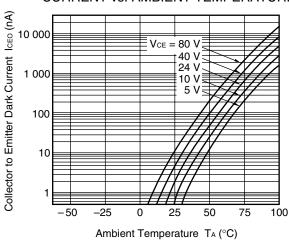
TYPICAL CHARACTERISTICS (TA = 25°C, unless otherwise specified)





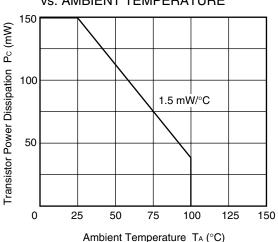


COLLECTOR TO EMITTER DARK CURRENT vs. AMBIENT TEMPERATURE

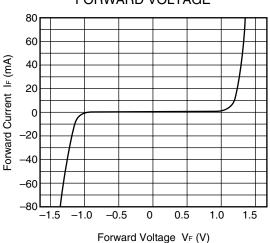


Remark The graphs indicate nominal characteristics.

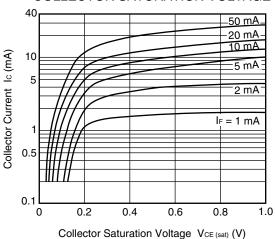




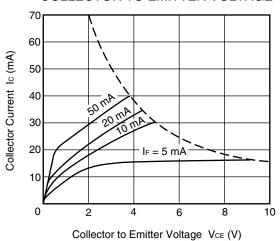
FORWARD CURRENT vs. FORWARD VOLTAGE



COLLECTOR CURRENT vs. COLLECTOR SATURATION VOLTAGE

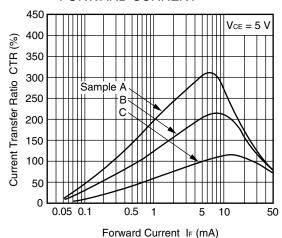


COLLECTOR CURRENT vs. COLLECTOR TO EMITTER VOLTAGE

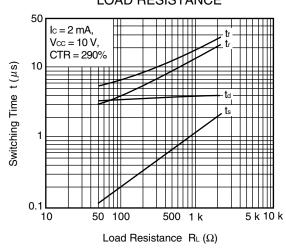


1005NT TO 110550 D 1710

CURRENT TRANSFER RATIO vs. FORWARD CURRENT

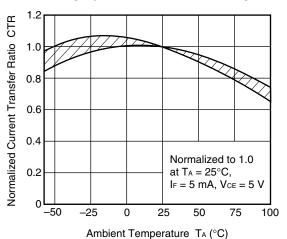


SWITCHING TIME vs. LOAD RESISTANCE

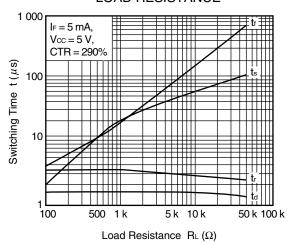


Remark The graphs indicate nominal characteristics.

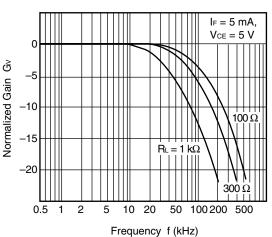
NORMALIZED CURRENT TRANSFER RATIO vs. AMBIENT TEMPERATURE



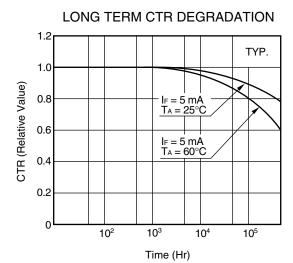
SWITCHING TIME vs. LOAD RESISTANCE



FREQUENCY RESPONSE



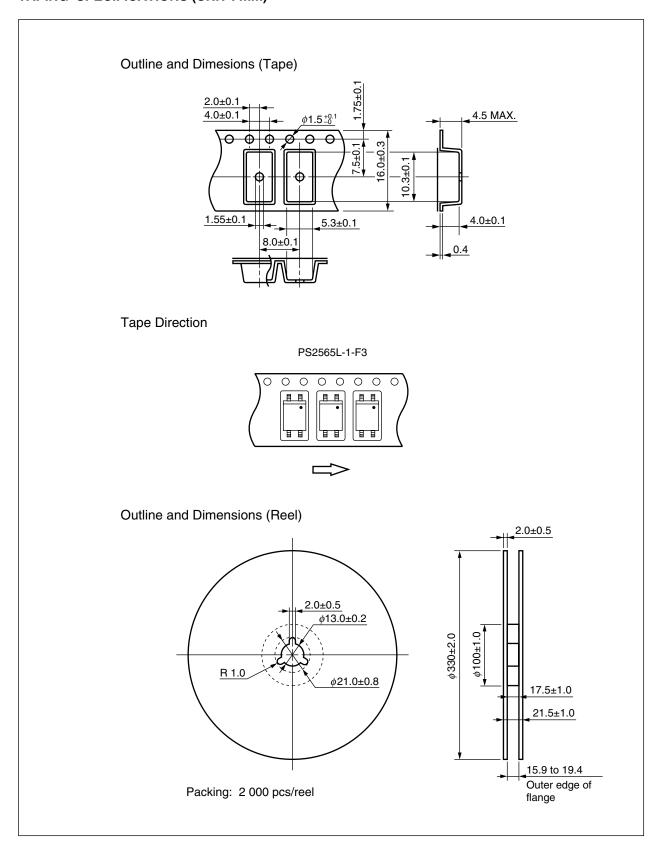




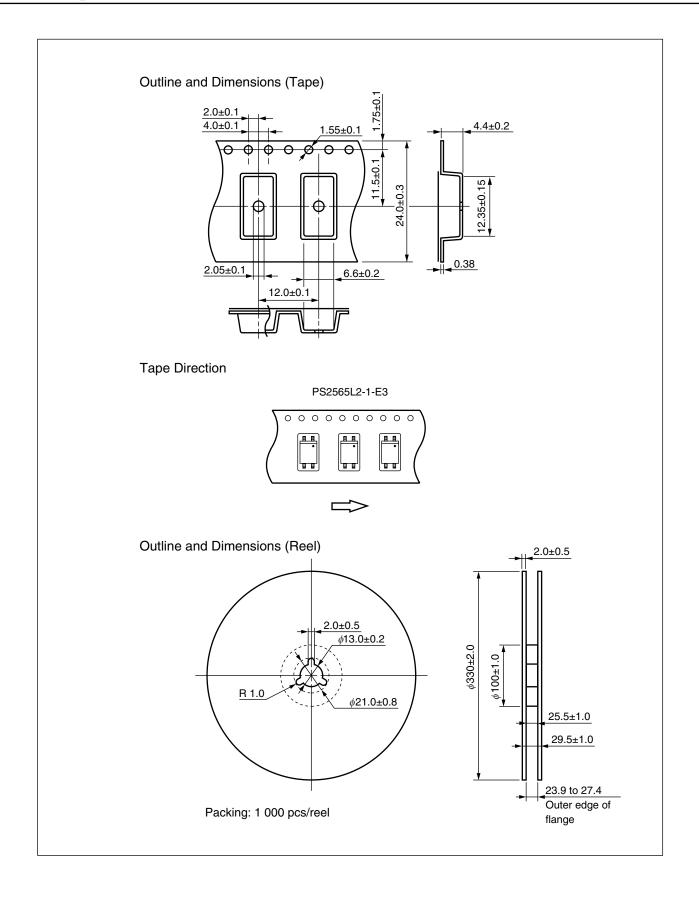
Remark The graph indicates nominal characteristics.



<R> TAPING SPECIFICATIONS (UNIT: mm)









NOTES ON HANDLING

1. Recommended soldering conditions

(1) Infrared reflow soldering

Peak reflow temperature
 260°C or below (package surface temperature)

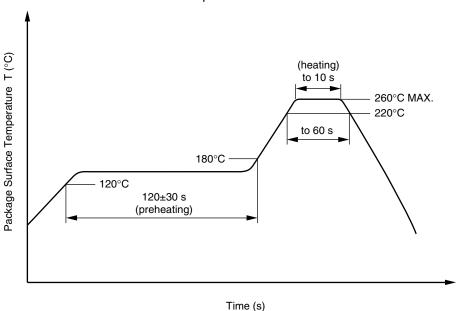
Time of peak reflow temperature
 Time of temperature higher than 220°C
 10 seconds or less
 60 seconds or less

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) $U_{pr} = 1.5 \times U_{IORM}, P_d < 5 pC$ | Uювм Upr | 890 1 335 | V _{peak} V _{peak} |
| Test voltage (partial discharge test, procedure b for all devices) $U_{pr}=1.875\times U_{IORM},P_d<5\;pC$ | Upr | 1 669 | V_{peak} |
| Highest permissible overvoltage | Utr | 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 | Tstg | -55 to +150 | °C |
| Operating temperature range | TA | -55 to +100 | °C |
| Isolation resistance, minimum value VIO = 500 V dc at TA = 25°C VIO = 500 V dc at TA MAX. at least 100°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 , Psi = 0) Power (output or total power dissipation) Isolation resistance | Tsi Isi Psi | 175 400 700 | °C mA mW |
| V _{IO} = 500 V dc at T _A = Tsi | Ris MIN. | 10° | Ω |



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M8E0904E



Caution

GaAs Products

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.

- 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.
 - 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.

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

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