LN162S

GaAs Infrared Light Emitting Diode

For optical control systems

■ Features

- High-power output, high-efficiency: $P_O = 3.5 \text{ mW (typ.)}$
- Infrared light emission close to monochromatic light: $\lambda_P = 950 \text{ nm}$ (typ.)
- Small ceramic package

■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | Symbol | Rating | Unit | |
|-------------------------------|------------------|-------------|------|--|
| Power dissipation | P_{D} | 75 | mW | |
| Forward current | I_{F} | 50 | mA | |
| Pulse forward current * | I _{FP} | 1.0 | A | |
| Reverse voltage | V _R | 3 | V | |
| Operating ambient temperature | T _{opr} | -25 to +85 | °C | |
| Storage temperature | $T_{\rm stg}$ | -30 to +100 | °C | |

Note) *: f = 100 Hz, Duty cycle = 0.1%

■ Electro-Optical Characteristics $T_a = 25$ °C±3°C

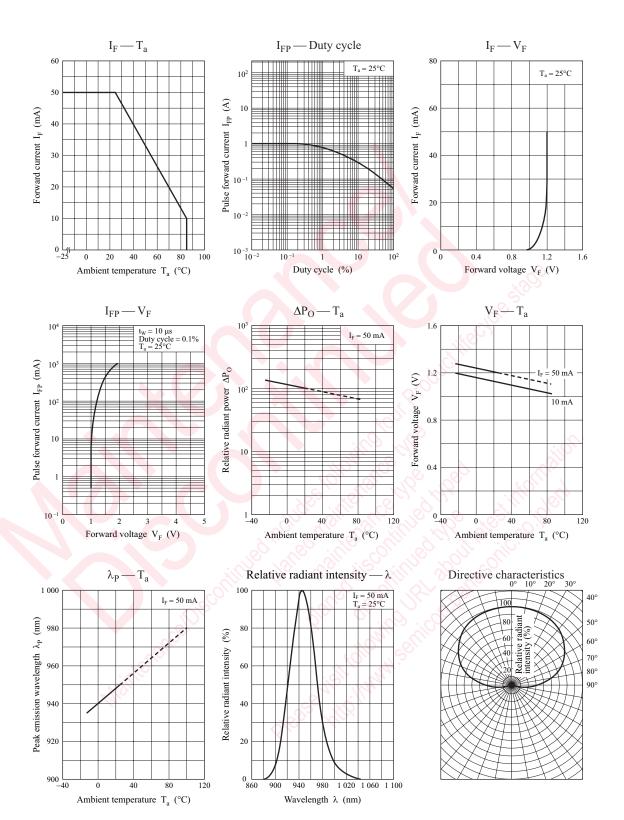
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|--------------------------|------------------|---|--------|-----|-----|------|
| Radiant power * | Po | $I_F = 50 \text{ mA}$ | 1.5 | 3.5 | | mW |
| Reverse current | I_R | $V_R = 3 V$ | © | 5 | 10 | μΑ |
| Forward voltage | $V_{\rm F}$ | $I_F = 50 \text{ mA}$ | 1 10 | 1.2 | 1.5 | V |
| Terminal capacitance | C _t | $V_R = 0 \text{ V}, f = 1 \text{ MHz}$ | 10/1/2 | 50 | | pF |
| Peak emission wavelength | $\lambda_{ m P}$ | $I_F = 50 \text{ mA}$ | 1000 | 950 | | nm |
| Spectral half band width | Δλ | $I_F = 50 \text{ mA}$ | 150 | 50 | | nm |
| Half-power angle | θ | The angle when the radiant power is halved. | | 80 | | 0 |

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

^{2. *:} A light detection element uses a silicon diode have proofread a load with a standard device.

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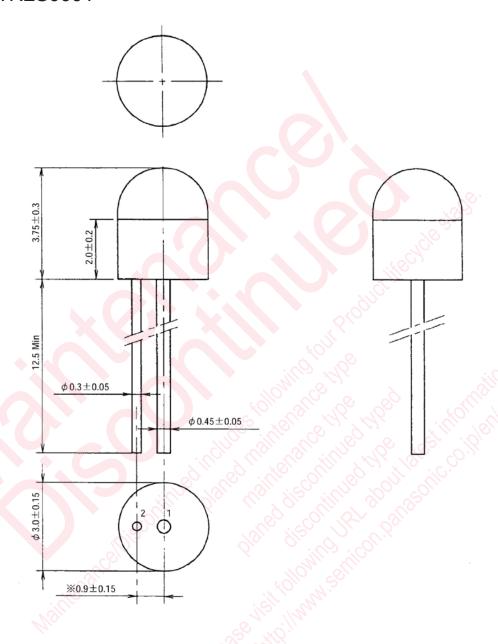


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■ Package (Unit: mm)

CEDLTN2S0001



- Pin name
 - 1: Cathode
 - 2: Anode

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