LN66ANC

GaAlAs Infrared Light Emitting Diode

For remote control systems

■ Features

- High-power output, high-efficiency: $P_O = 12 \text{ mW (typ.)}$
- Emitted light spectrum suited for silicon photodetectors
- High directivity: $\theta = 20^{\circ}$ (typ.)
- Dark blue resin package

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Power dissipation	P_{D}	160	mW
Forward current	I_{F}	100	mA
Pulse forward current *	I_{FP}	1.5	A
Reverse voltage	V_R	3	V
Operating ambient temperature	T _{opr}	-25 to +85	°C
Storage temperature	T _{stg}	-40 to +100	°C

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

■ Electro-Optical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Radiant power	Po	$I_F = 50 \text{ mA}$	0.	12.0	0/8/	mW
Reverse current	I_R	$V_R = 3 V$	5 196	00	10	μА
Forward voltage	V _F	$I_F = 100 \text{ mA}$		1.4	1.6	V
Pulse forward voltage *	V_{FP}	$I_{FP} = 1.0 \text{ A}$)	3.0	V
Center radiant intensity	$I_{\rm e}$	$I_F = 50 \text{ mA}$	9.0			mW/sr
Terminal capacitance	C_{t}	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		35		pF
Peak emission wavelength	$\lambda_{ m P}$	$I_F = 50 \text{ mA}$		950		nm
Spectral half band width	Δλ	$I_F = 50 \text{ mA}$		50		nm
Half-power angle	θ	The angle when the radiant power is halved.		20		0

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

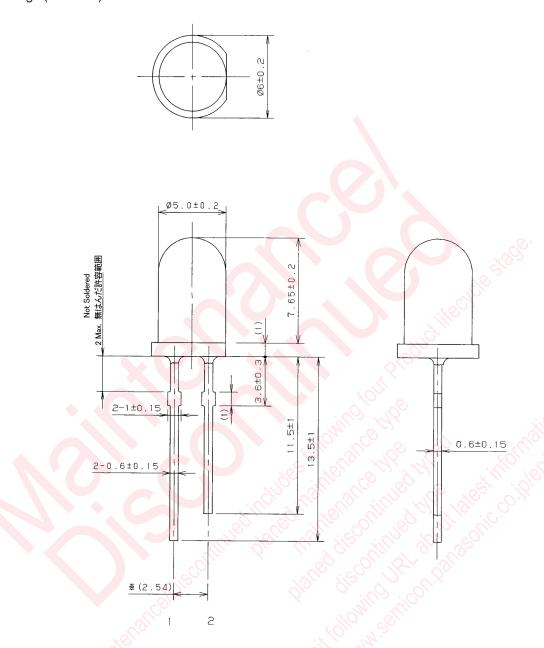
2. Cutoff frequency: 1 MHz

$$f_C$$
: $10 \times log \frac{P_O \text{ at } f = f_C}{P_O \text{ at } f = 50 \text{ kHz}} = -3$

3. *: f = 100 Hz, Duty Cycle = 0.1%

LN66ANC Panasonic

■ Package (Unit: mm)



- Pin name
 - 1: Anode
 - 2: Cathode

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