Optrans

Preliminary

Visible Red LED

Product No: **MTE1166NK2**

Peak Emission Wavelength: 660nm

The 660nm red LED Series is designed for applications requiring high accurary and precision. Custom package solutions and sorting are available.

FEATURES

> High Reliability
> High Output Power
> Narrow Radiation Pattern

APPLICATIONS

> Optical Sensing
> Optical Instruments
> Linear & Rotary Encoder
> Machine Vision / CCD

Absolute Maximum Ratings (Ta=25°C)

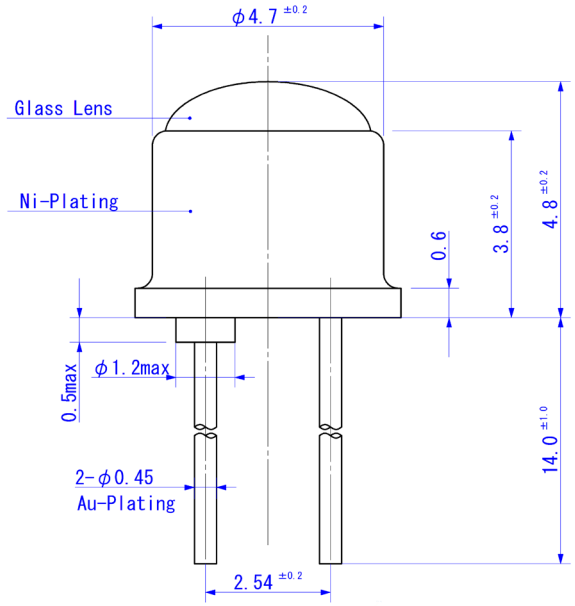
ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	50	mA
Forward Current (Pulse)*1	IFP	0.5	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	125	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Lead Soldering Temperature*2	Tls	260	°C

*1: Tw=10μsec, T=10msec; *2: Time 5 Sec max, Position: Up to 3mm from the body.

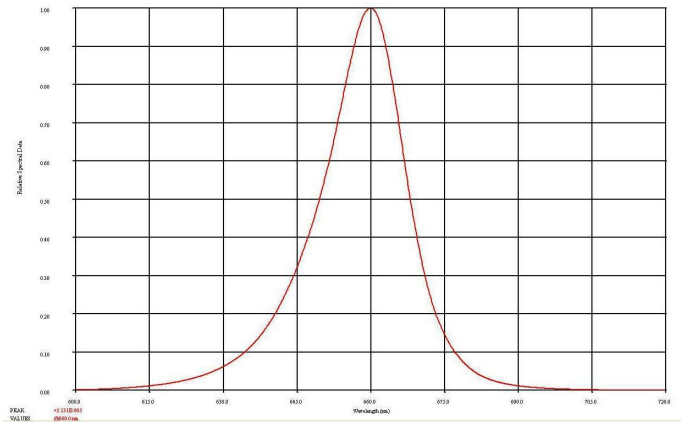
Electrical & Optical Characteristics (Ta = 25°C)

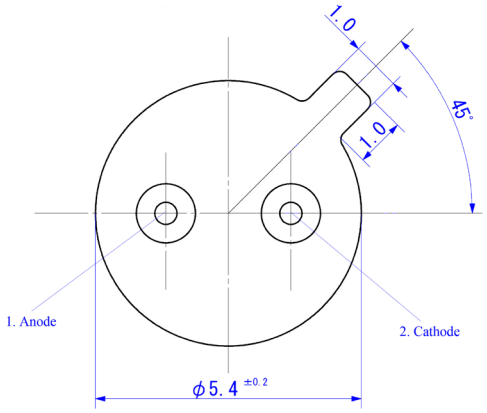
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	--	9.0	--	mW
Forward Voltage	VF	IF=20mA	--	1.9	--	V
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λp	IF=20mA	--	660	--	nm
Spectral Line Half Width	Δλ	IF=20mA	--	18	--	nm
Half Intensity Beam Angle	Θ	IF=20mA	--	6.2	--	deg

2026-05-22

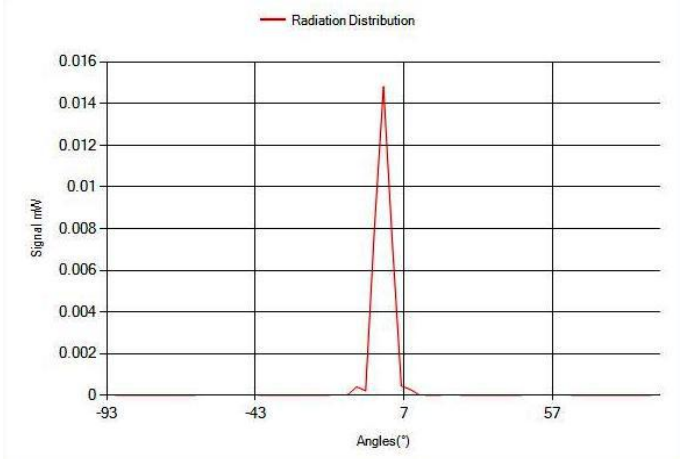


SPECTRAL RESPONSE





RADIATION DISTRIBUTION



Unit: mm, Tolerance: ±0.2

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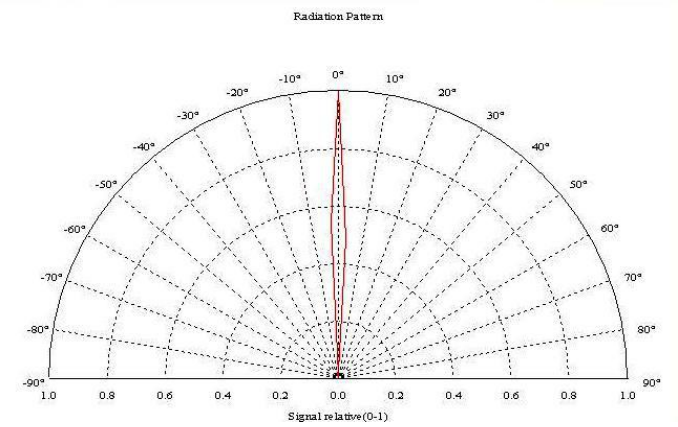
VIEW ANGLE



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