

Peak Emission Wavelength: 650nm

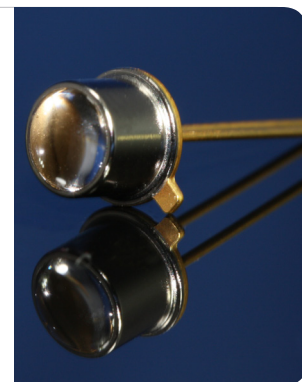
The MTPS3065NK1-UR is a infrared Point Source Emitter for applications requiring high output and precise optical / mechanical axis alignment. Custom package solutions and sorting are available.

FEATURES

- > Red Color Point Source
- > Emitting Window Dia. 50um
- > Narrow Beam Angle

APPLICATIONS

- > Optical Switches



Absolute Maximum Ratings (Ta=25°C)

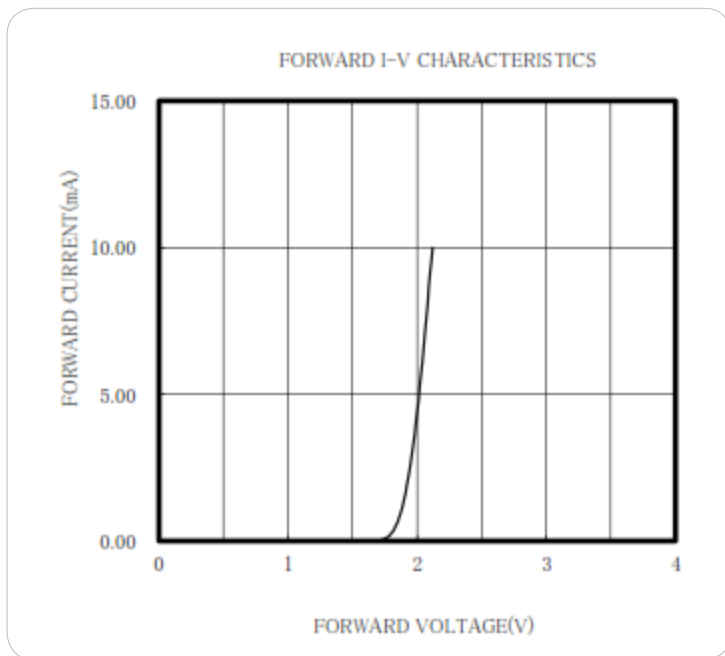
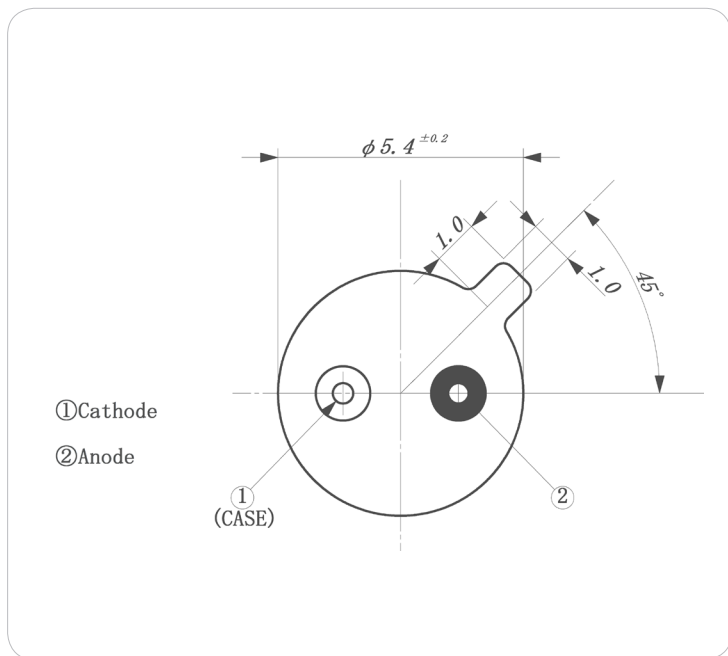
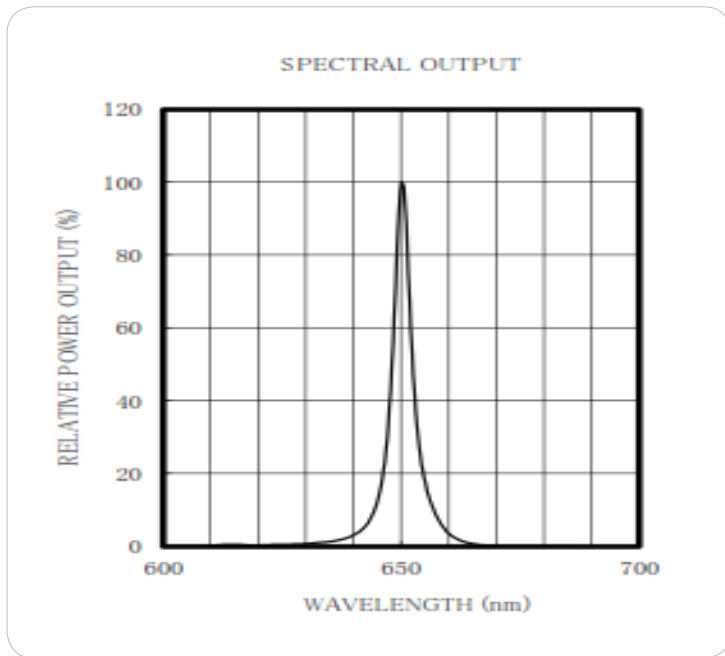
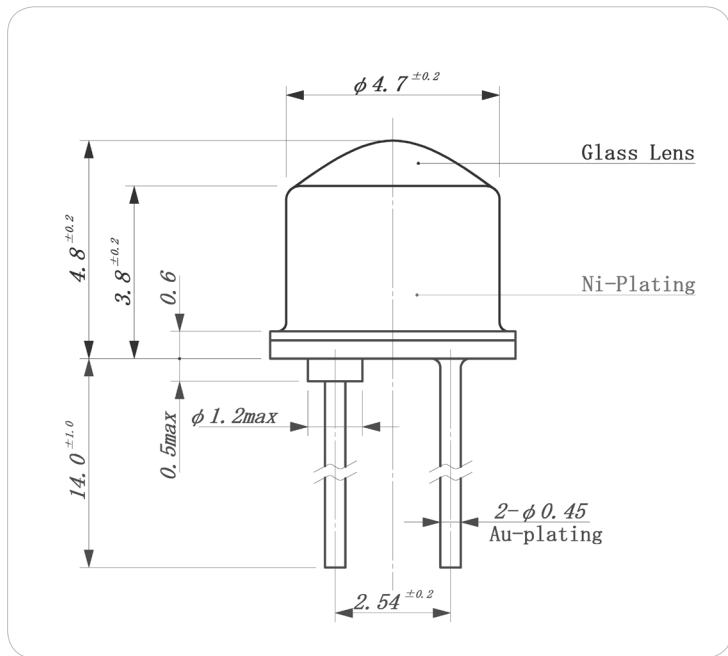


ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	10	mA
Forward Current (Pulse)*1	IFP	30	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	45	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Lead Soldering Temperature*2	Tls	260	°C

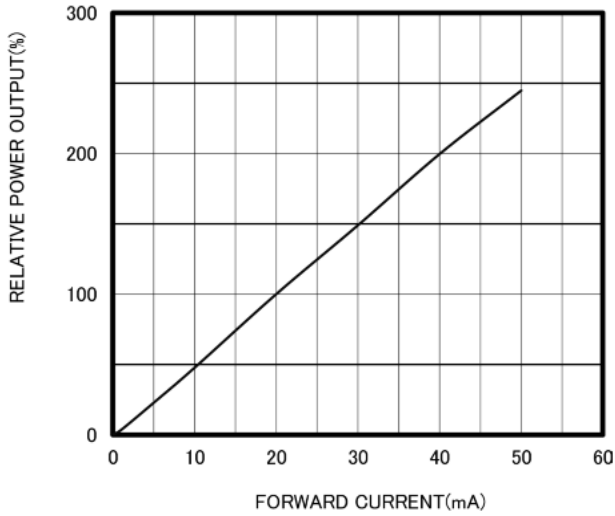
*1: Tw=10μsec, T=10msec. *2: Time 5 Sec max, Position: Up to 3mm from the body.

Electrical & Optical Characteristics (Ta = 25°C)

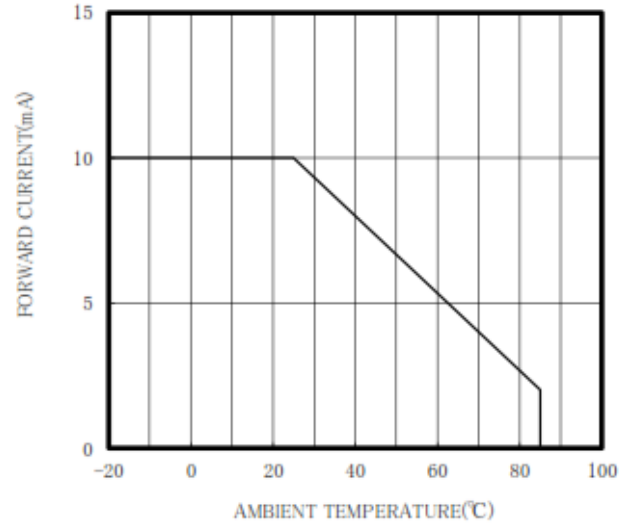
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=5mA	--	300	--	uW
Forward Voltage	VF	IF=5mA	--	2.0	2.4	V
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λp	IF=5mA	--	650	--	nm
Spectral Line Half Width	Δλ	IF=5mA	--	5	--	nm
Half Intensity Beam Angle	Θ	IF=5mA	--	±6	--	deg



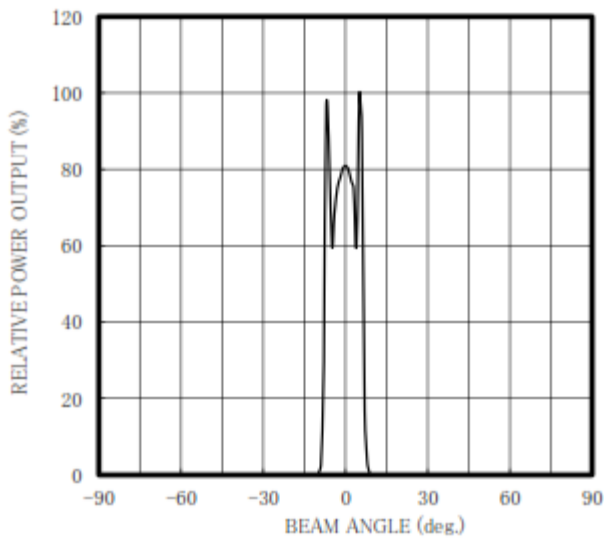
RELATIVE POWER vs FORWARD CURRENT



THERMAL DERATING CURVE



RADIATION PATTERN



The information contained herein is subject to change without notice.

2023-11-02