Preliminary

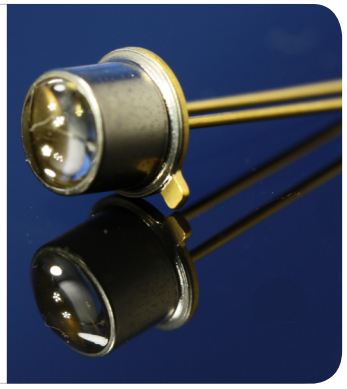
Marktech Optoelectronics

SWIR Infrared Emitter

Product No: **MTE6114N-WRC**

Peak Emission Wavelength: 1460nm

The 1460nm IR emitter series is designed for applications requiring precise optical / mechanical axis alignment and IR radiation in the SWIR range. Custom package solutions and sorting are available.



FEATURES

> Metal Can Package
> Narrow Beam Angle
> High Reliability

APPLICATIONS

> Bio Medical Applications
> Optical Sensors
> Optical Communications

Absolute Maximum Ratings (Ta=25°C)

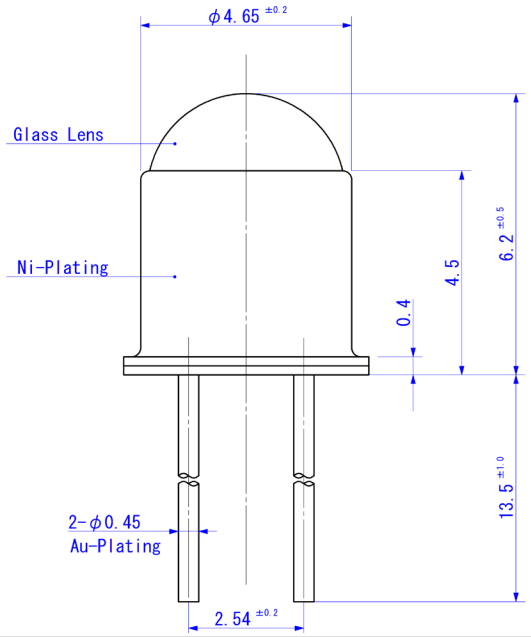
ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	100	mA
Forward Current (Pulse)*1	IFP	1	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	100	mW
Operating Temperature Range	Topr	-25 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Lead Soldering Temperature*2	Tls	260	°C

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

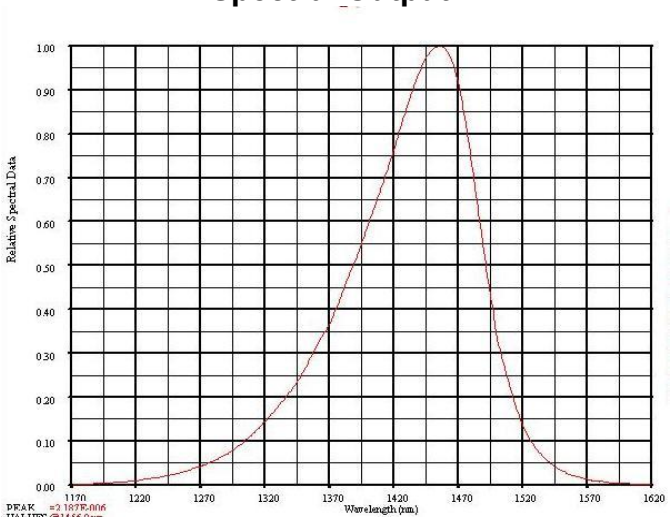
Electrical & Optical Characteristics (Ta = 25°C)

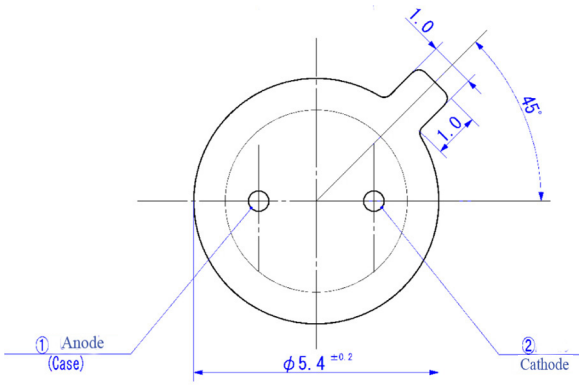
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	--	2.0	--	mW
Forward Voltage	VF	IF=20mA	--	0.91	--	V
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λp	IF=20mA	--	1460	--	nm
Spectral Line Half Width	Δλ	IF=20mA	--	103	--	nm
Half Intensity Beam Angle	Θ	IF=20mA	--	16	--	deg

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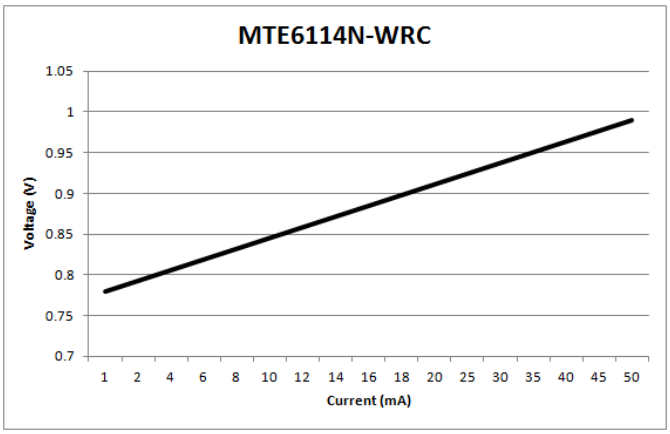


Spectral Output





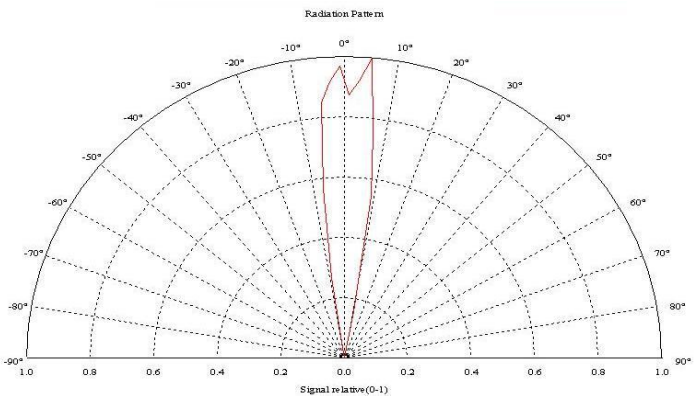
Forward V-I Characteristics

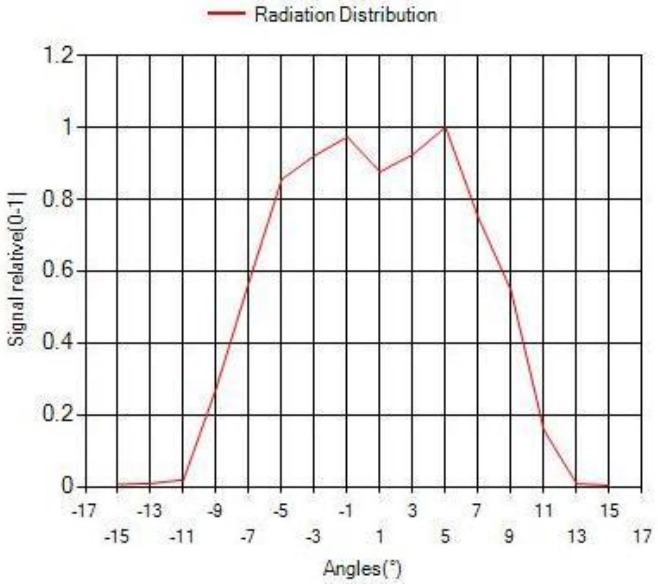


Unit: mm, Tolerance: ±0.2

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RADIATION PATTERN





The information contained herein is subject to change without notice.

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