

**SWIR Infrared Emitter**

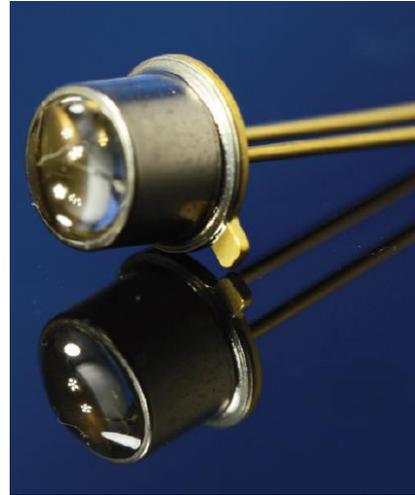
**Model No. AL1461M-WRC**

SWIR  $\lambda$  p1460nm LED

RoHS compliant

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

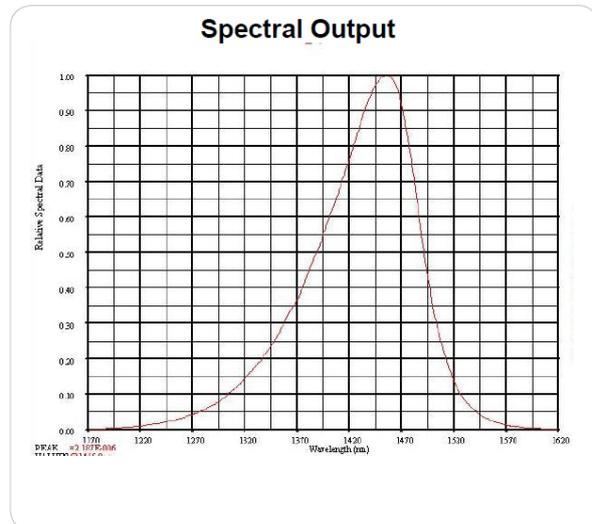
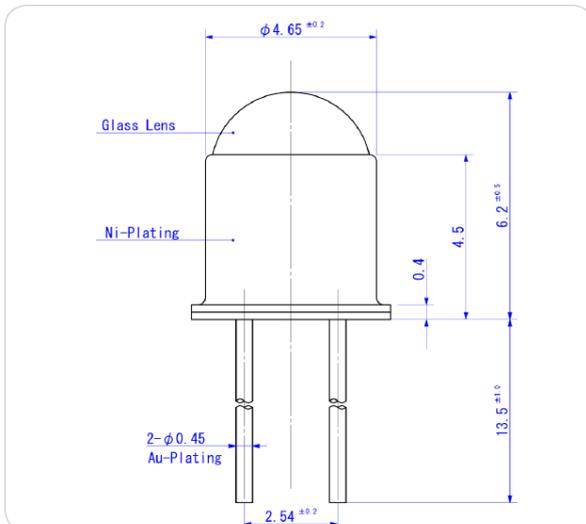
Items	Symbol	Value	Unit
Forward Current (DC)	I <sub>F</sub>	100	mA
Forward Current (Pulse) <sup>*1</sup>	I <sub>FP</sub>	1	A
Reverse Voltage (DC)	V <sub>R</sub>	5	V
Power Dissipation	PD	100	mW
Operating Temperature Range	Topr	-25~+85	°C
Storage Temperature Range	Tstg	-30~+100	°C
Lead Soldering Temperature <sup>*2</sup>	Tls	260	°C

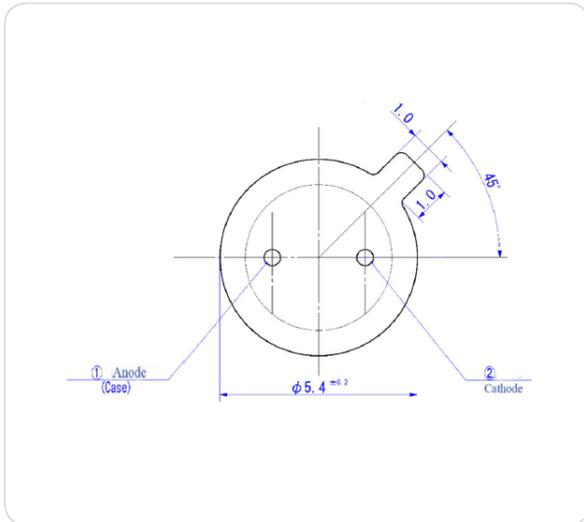
\*1: Tw=10μsec, T=10msec; \*2: Time 5 Sec max, Position: Up to 3mm from the body.

◆ **Electrical - Optical Characteristics**

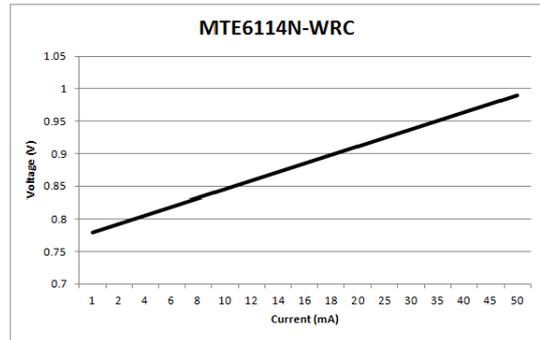
Ta = 25°C

Items	Symbol	Value			Unit	Conditions
		Min.	Typ.	Max.		
Power Output	PO	--	3.7	--	mW	IF=50mA
Forward Voltage	VF	--	1.02	--	V	IF=50mA
Power Output	PO	--	2.0	--	mW	IF=20mA
Forward Voltage	VF	--	0.91	--	V	IF=20mA
Reverse Current	IR	--	--	100	μA	VR=5V
Peak Emission Wavelength	$\lambda_p$	--	1460	--	nm	IF=20mA
Spectral Line Half Width	$\Delta \lambda$	--	103	--	nm	IF=20mA
Half Intensity Beam Angle	$\theta$	--	16	--	deg	IF=20mA





Forward V-I Characteristics



Unit: mm, Tolerance:  $\pm 0.2$

