

SWIR Infrared Emitter

Model No. AL1651M-WRC

SWIR λ p1650nm LED

RoHS compliant

Peak Emission Wavelength : 1650nm

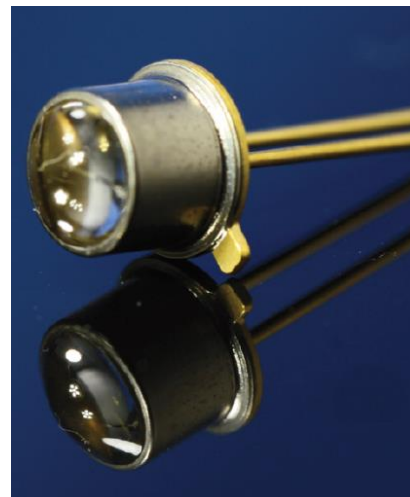
The 1650nm IR emitter series is designed for applications requiring precise optical / mechanical axis alignment and IR radiation in the SWIR range. Custom package solutions and sorting are available.

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 _F	100	mA
Forward Current (Pulse) ^{*1}	I _{FP}	1	A
Reverse Voltage (DC)	V _R	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	Value			Unit	Conditions
		Min.	Typ.	Max.		
Power Output	PO	--	3.0	--	mW	IF=50mA
Forward Voltage	VF	--	0.99	--	V	IF=50mA
Power Output	PO	--	1.6	--	mW	IF=20mA
Forward Voltage	VF	--	0.87	--	V	IF=20mA
Reverse Current	IR	--	--	100	μA	VR=5V
Peak Emission Wavelength	λ_p	--	1650	--	nm	IF=20mA
Spectral Line Half Width	$\Delta \lambda$	--	115	--	nm	IF=20mA
Half Intensity Beam Angle	θ	--	16	--	deg	IF=20mA

