

SWIR Infrared Emitter

Model No. AE1551M5

SWIR λ p1550nm LED
RoHS compliant

Peak Emission Wavelength : 1550nm

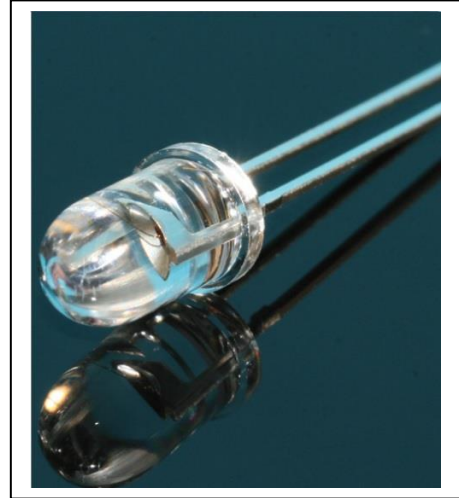
The AE1551M5 consists of a 1550nm high output infrared die in a water-clear 5mm plastic molded dome shaped package. Custom package solutions and sorting are available.

FEATURES

- > High output power
- > Narrow Beam Angle
- > High Reliability

APPLICATIONS

- > Optical Switches & Sensors
- > Fiber Optical Communication
- > Bar - code Reader



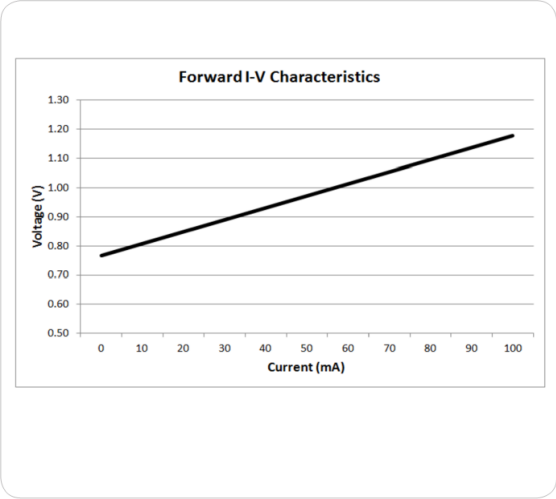
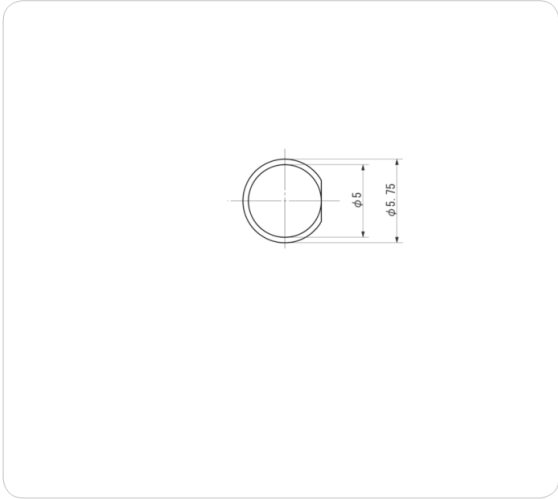
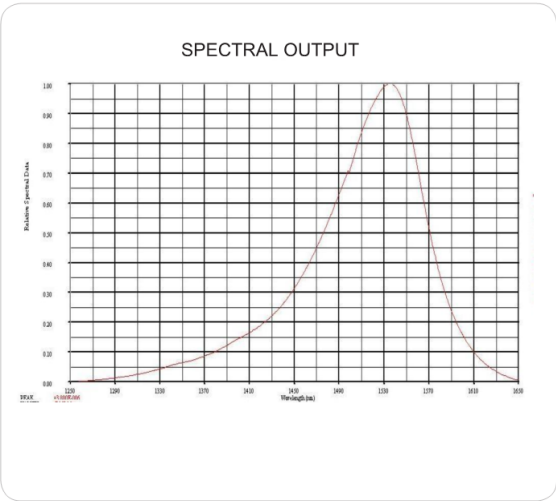
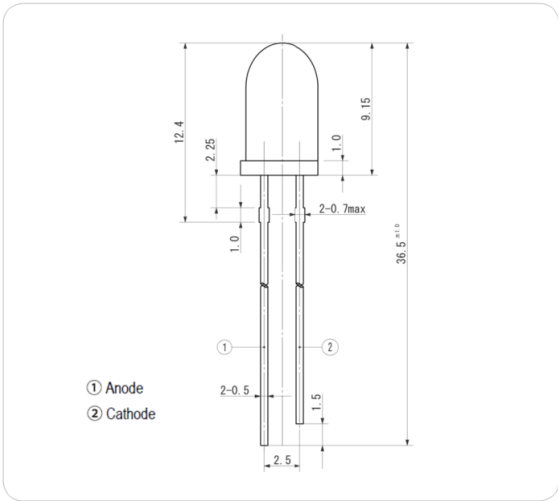
◆ **Absolute Maximum Ratings** Ta = 25°C

Items	Symbol	Value	Unit
Forward Current (DC)	I _F	100	mA
Forward Current (Pulse)*1	I _{FP}	1	A
Reverse Voltage	V _R	5	V
Power Dissipation	PD	120	mW
Operating Temperature Range	Topr	-20~+80	°C
Storage Temperature Range	Tstg	-30~+100	°C
Junction Temperature	T _j	100	°C
Lead Soldering Temperature *2	T _{ls}	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	--	3.5	--	mW	IF=20mA
Power Output	PO	--	6.5	--	mW	IF=50mA
Forward Voltage	VF	--	0.9	--	V	IF=20mA
Forward Voltage	VF	--	1.0	--	V	IF=50mA
Reverse Current	IR	--	--	100	μA	VR=5V
Peak Emission Wavelength	λ p	--	1550	--	nm	IF=50mA
Spectral Line Half Width	$\Delta \lambda$	--	100	--	nm	IF=50mA
Half Intensity Beam Angle	θ	--	±5	--	deg	IF=50mA



Unit: mm, Tolerance: ± 0.2

