

Pulsed laser diode module

C6582

Compact, pulsed laser diode driver module



Features

- Built-in pulsed laser diode (Hamamatsu L7055-02)
- Compact size
- Easy handling: single +5 V supply operation
- Laser oscillation by external pulse

Applications

- Laser radars
- Fiber optic measurement systems
- Optical measurement equipment

■ Absolute maximum ratings

Parameter	Symbol	Value	Unit
Operating temperature	T _{opr}	0 to +50	°C
Storage temperature	T _{stg}	-20 to +60	°C

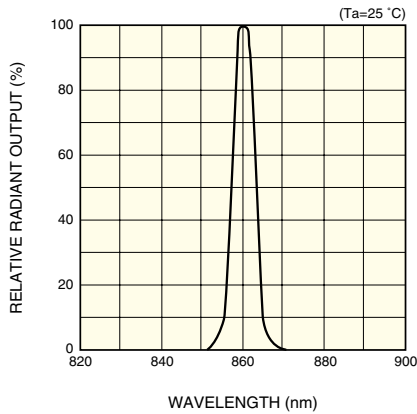
■ Specifications (Typ. T_a=25 °C, unless otherwise noted)

Parameter	Symbol	Condition	Specification
Supply voltage	V _s	I _s =400 mA Typ. f=10 kHz	+5 V
Peak emission wavelength	λ _p		870 nm Typ.
Radiant flux	φ _e		25 W Typ.
Pulse width	P _w		10 ns Typ.
External drive pulse signal	-		TTL or CMOS level
Repetition frequency	f		10 kHz Max.
Emission timing signal	-		TTL (negative theory)

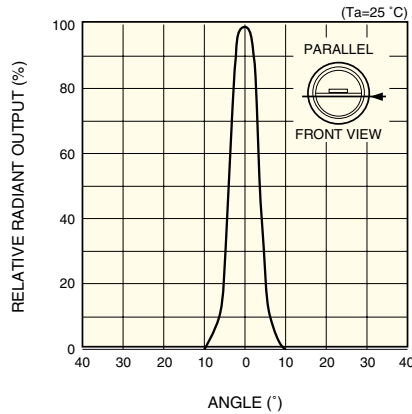
■ Precautions for use

- The laser used in this product emits invisible radiation and falls under **Class 3B** lasers. Looking directly at laser beams may impair eyesight, so always wear the appropriate safety glasses or goggles.
- This product contains a high voltage power supply. Touching an internal part may cause electrical shocks. Do not open the case.
- Laser power may fluctuate when the ambient temperature varies.

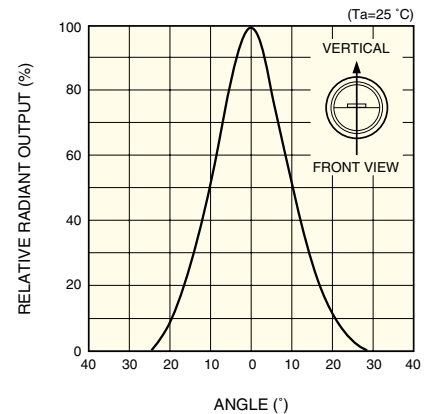
■ Emission spectrum (typical example) ■ Directivity



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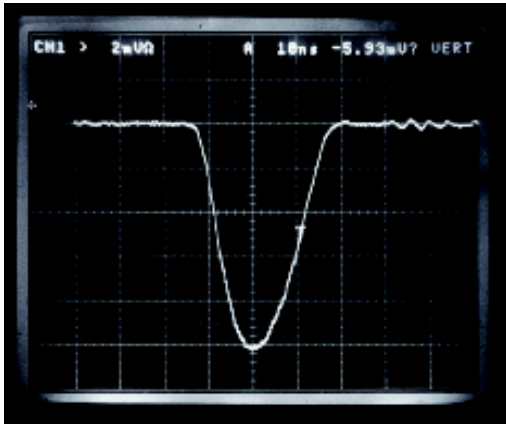


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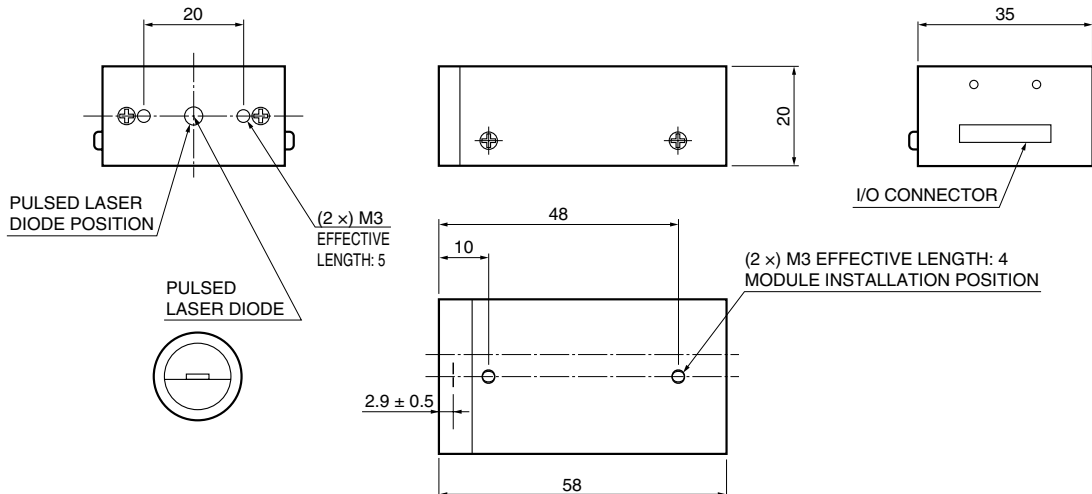


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■ Output waveform



■ Dimensional outline (unit: mm)



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HAMAMATSU

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