

Features

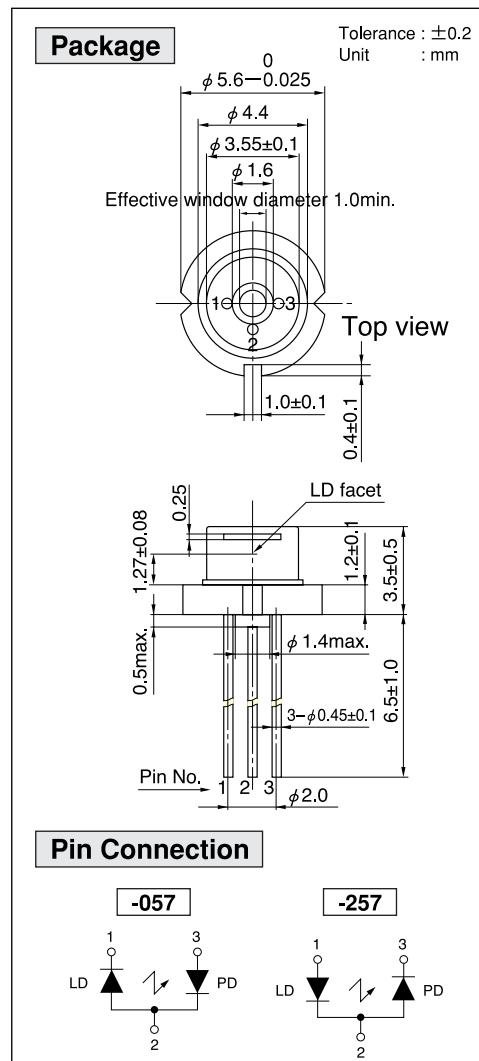
- Short wavelength : 670 nm (Typ.)
- Low threshold current : $I_{th} = 25 \text{ mA}$ (Typ.)
- High operating temperature : 5mW at 60°C
- Small package : $\phi 5.6\text{mm}$

Applications

- Laser beam printer
- Bar-code scanner

Absolute Maximum Ratings

(Tc = 25°C)				
Parameter	Symbol	Ratings	Unit	
Light Output	CW	Po	7	mW
Reverse Voltage	LD	VR	2	V
	PD		30	
Operating Temperature	Topr	-10 to +60	°C	
Storage Temperature	Tstg	-40 to +85	°C	



Electrical and Optical Characteristics ^{1) 2)}

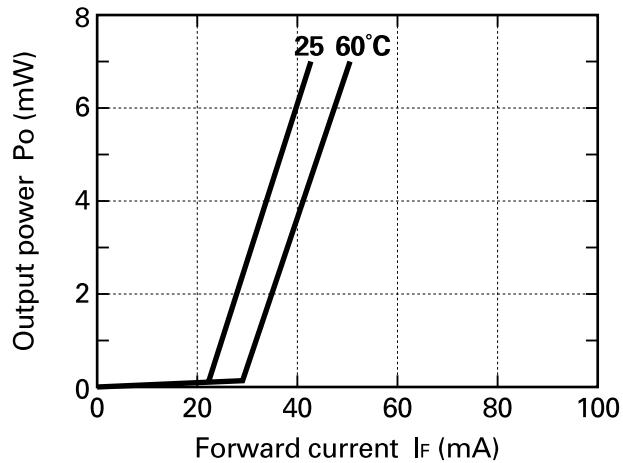
Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current	I_{th}	CW		—	25	35	mA
Operating Current	I_{op}	$Po=5\text{mW}$		—	40	45	mA
Operating Voltage	V_{op}	$Po=5\text{mW}$		—	2.3	2.6	V
Lasing Wavelength	λ_p	$Po=5\text{mW}$		660	670	678	nm
Beam Divergence ³⁾	Perpendicular	θ_{\perp}	$Po=5\text{mW}$	25	30	35	°
Off Axis Angle	Parallel	$\theta_{//}$	$Po=5\text{mW}$	6.5	8	10	°
Differential Efficiency	dPo/dI_{op}		—	0.2	0.4	0.6	mW/mA
Monitoring Output Current	I_m	$Po=5\text{mW}$		0.5	$1.5^{4)}$	2.0	mA
Astigmatism	As	$Po=5\text{mW}$		—	8	—	μm

1)Initial values 2)All the above values are evaluated with Tottori Sanyo's measuring apparatus
Note : The above product specifications are subject to change without notice.

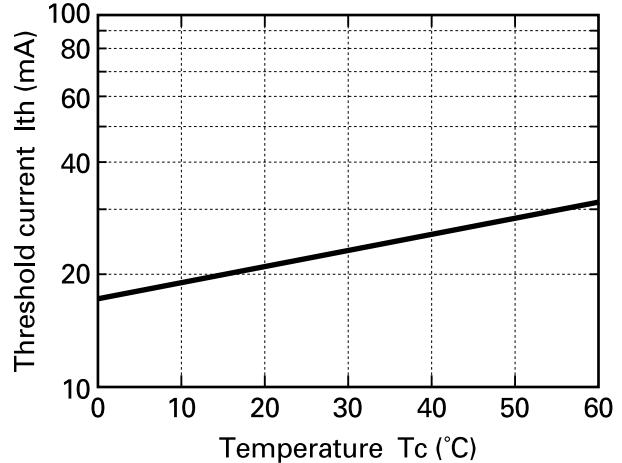
3) Full angle at half maximum 4) -257 : I_m Typ = 1.2mA

Characteristics

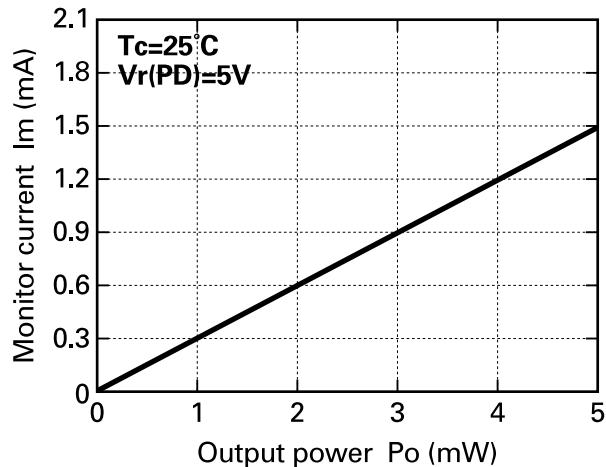
Output power vs. Forward current



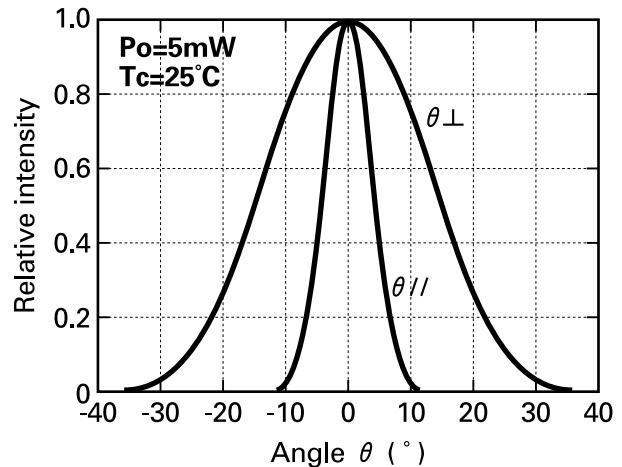
Threshold current vs. Temperature



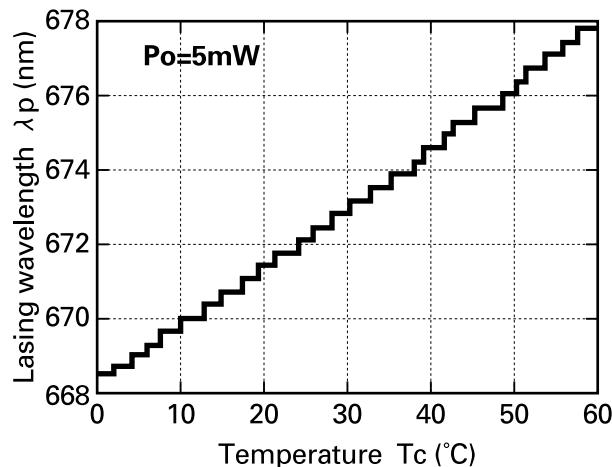
Monitor current vs. Output power



Beam divergence



Lasing wavelength vs. Temperature



Lasing wavelength vs. Output power

