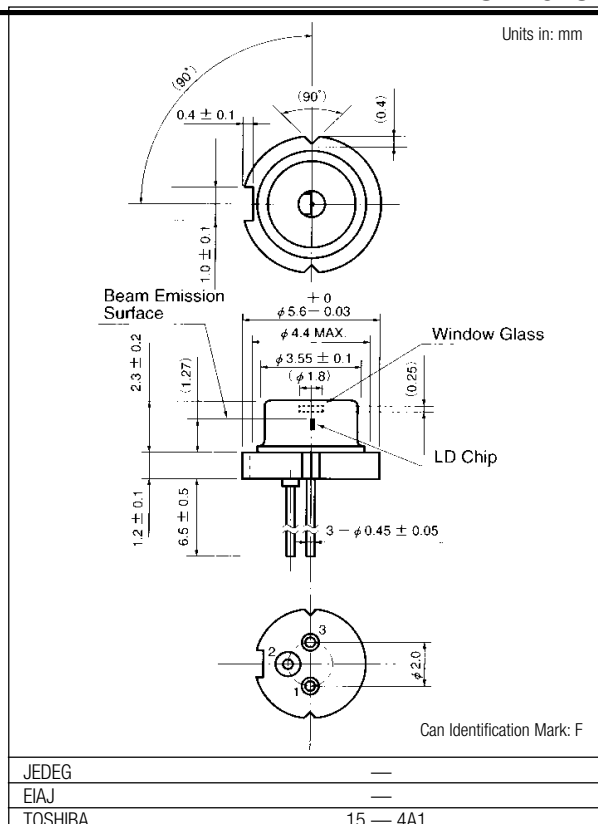
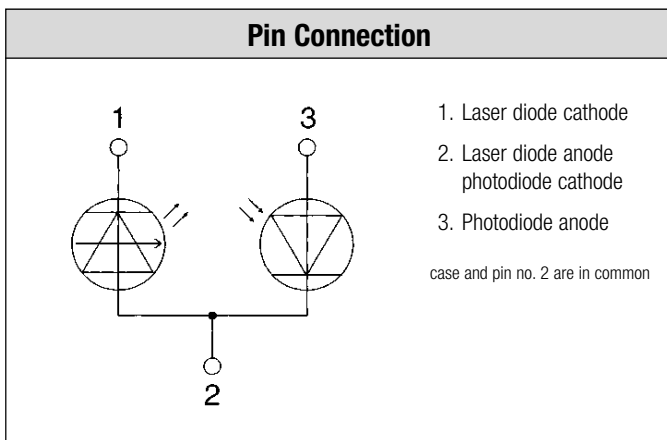


- Small package gain guided type MQW InGaAlP VLD
- Package flange: $\phi 5.6\text{mm}$
- Applications include:
Bar code scanners, measurement systems,
laser pointer, etc.



Maximum ratings (Tc=25°C)

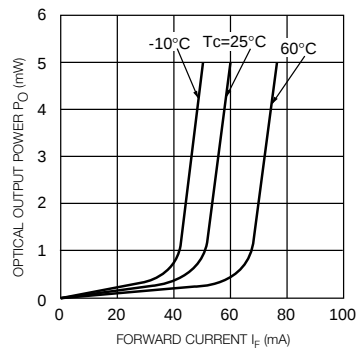
Characteristic	Symbol	Rating	Unit
Optical Output Power(CW)	P_O	5	mW
LD Reverse Voltage	$V_{R(LD)}$	2	V
PD Reverse Voltage	$V_{R(PD)}$	30	V
Operation Case Temperature	T_C	-10~+60	°C
Storage Temperature	T_{stg}	-40~+85	°C

Optical-electrical characteristics (Tc=25°C)

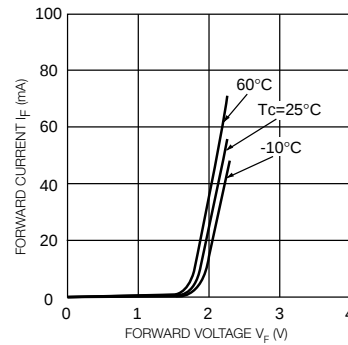
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Threshold Current	I_{th}	CW operation	—	50	75	mA
Operation Current	I_{op}	$P_O=5\text{mW}$	—	60	85	mA
Operation Voltage	V_{op}	$P_O=5\text{mW}$	—	2.3	3.0	V
Lasing Wavelength	λ_P	$P_O=5\text{mW}$	660	670	680	nm
Beam Divergence	$\theta_{ }$	$P_O=5\text{mW}$	7	10	16	°
	$\theta_{\perp}$	$P_O=5\text{mW}$	26	32	38	°
Monitor Current	I_m	$P_O=5\text{mW}$	0.25	0.9	1.7	mA
PD Dark Current	$I_{D(PD)}$	$V_R=5\text{V}$	—	—	100	nA
PD Total Capacitance	$C_{T(PD)}$	$V_R=5\text{V}$, $f=1\text{MHz}$	—	—	20	pF

Examples of Typical Characteristics

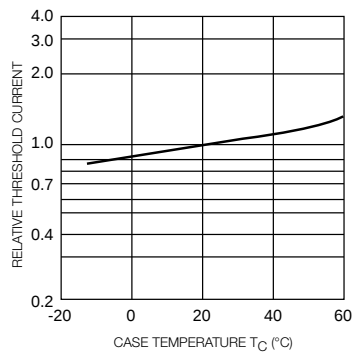
Optical Output Power vs. Forward Current



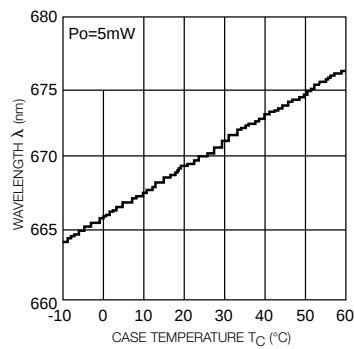
Forward Current vs. Forward Voltage



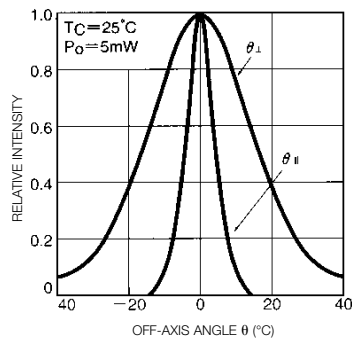
Case Temperature Dependence of Threshold Current



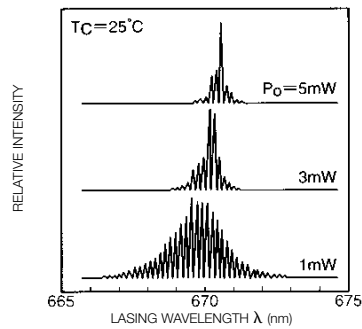
Case Temperature Dependence of Lasing Wavelength



Far-field Patterns



Lasing Spectrum



Monitor Current vs. Optical Output Power

