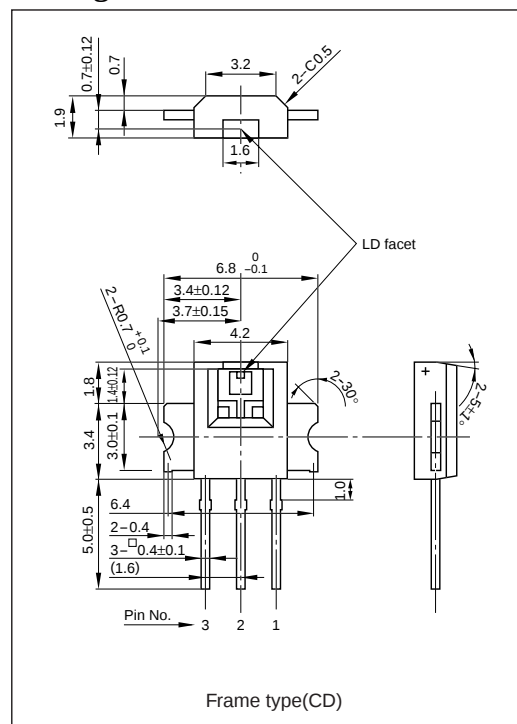


**DL-3150-107****Infrared Laser Diode (Frame Type)****Features**

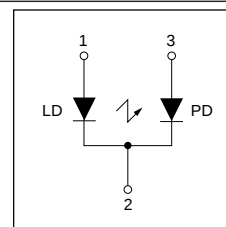
- Wavelength : 790 nm (Typ.)
- Frame type
- Compact lightweight thin package
- Straight leads

Package Dimensions**Absolute Maximum Ratings at Tc=25°C (as per JISC 7032)**

Parameter	Symbol	Condition	Ratings	Unit
Light Output	Po	Kink free	5	mW
Reverse Voltage	Laser PIN VR	-	2	V
		-	30	
Operating Temperature	Topr	1)	-10 to +60	°C
Storage Temperature	Tstg	1)	-40 to +85	°C
Soldering Temperature	Tsol	2)	260	°C

1) Case temperature

2) Soldering Time ≤ 3s, 1.6 mm from the root of a lead.

Pin Connection**Electrical and Optical Characteristics 3) 4) at Tc=25°C**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current	Ith	CW	-	35	50	mA
Operating Current	Iop	Po=3mW	-	45	60	mA
Operating Voltage	Vop	Po=3mW	1.6	1.8	2.3	V
Peak Lasing Wavelength 5)	λ p	Po=3mW	-	790	800	nm
Light Output Power	Po	-	-	3	-	mW
Beam 6) Divergence	Perpendicular	θ ⊥	Po=3mW	25	35	°
	Parallel	θ //	Po=3mW	8	10	°
Off Axis Angle	Perpendicular	Δ θ ⊥	Po=3mW	-	-	±3 °
	Parallel	Δ θ //	Po=3mW	-	-	±2 °
Differential Efficiency	dPo/dIop	Po=3mW	0.18	0.35	-	mW/mA
Monitoring Output Current	Im	Po=3mW	0.05	0.20	0.40	mA

3) Initial values 4) All the above values are evaluated with Tottori Sanyo's measuring apparatus

5) Wafer lot go/no-go decision criteria 6) Full angle at half maximum

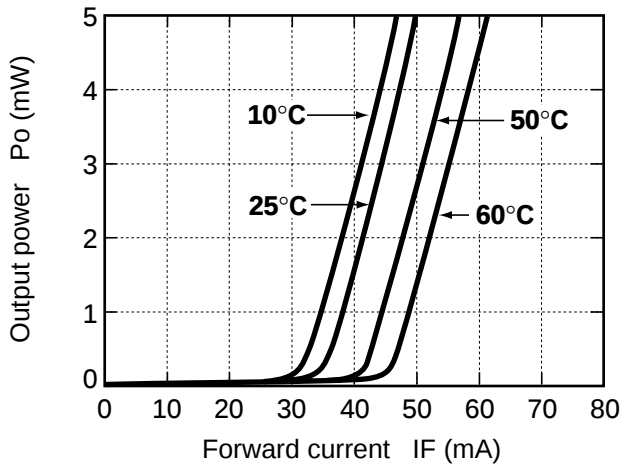
Note : The above product specification are subject to change without notice.

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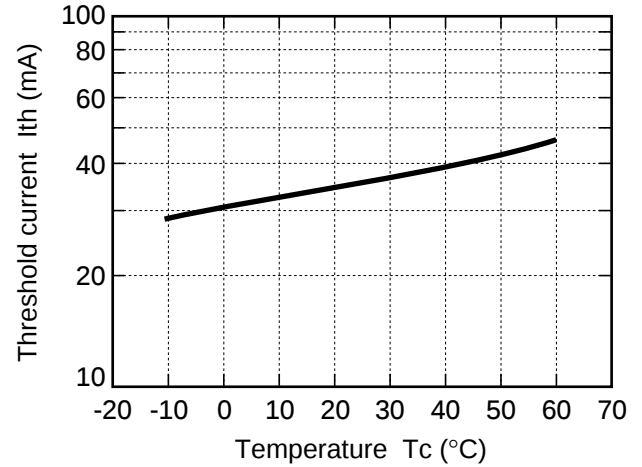
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

Characteristics

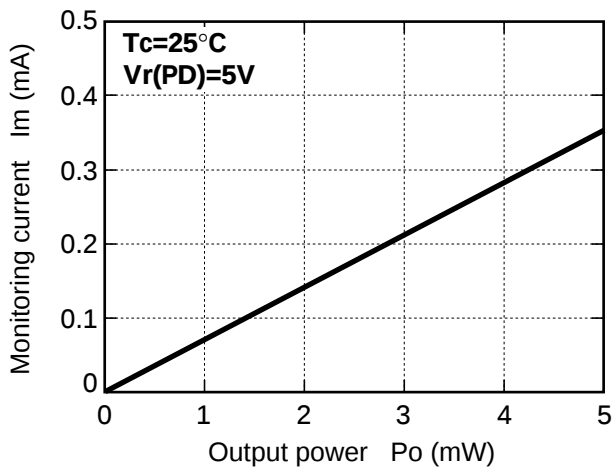
Output power vs. Forward current



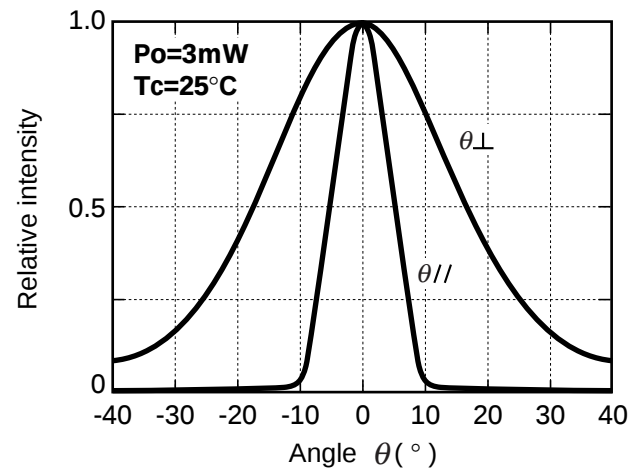
Threshold current vs. Temperature



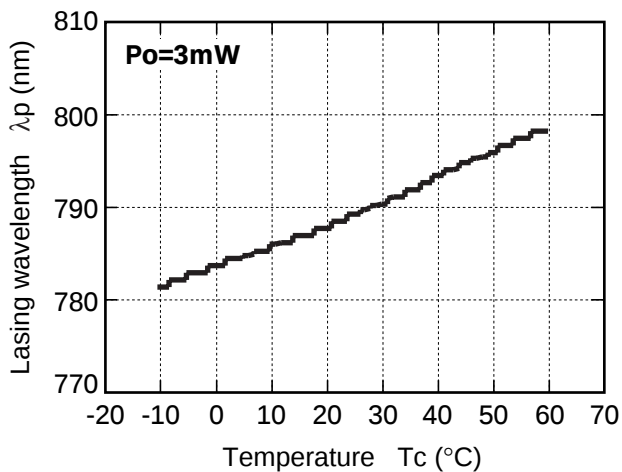
Monitoring current vs. Output power



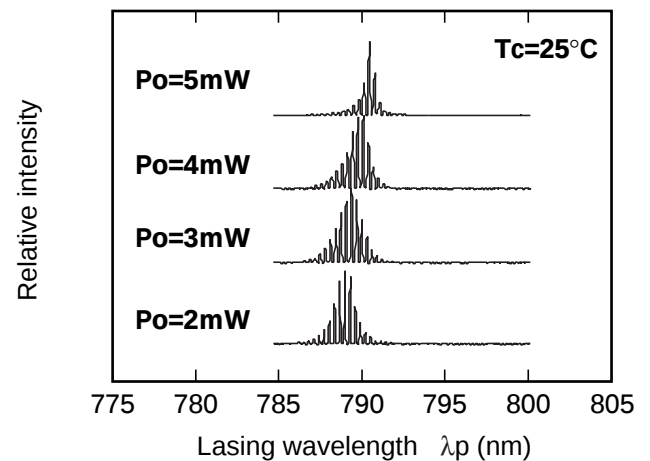
Beam divergence



Lasing wavelength vs. Temperature



Lasing wavelength vs. Output power





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Precautionary instructions in handling gallium arsenic products

Special precautions must be taken in handling this product because it contains, gallium arsenic, which is designated as a toxic substance by law. Be sure to adhere strictly to all applicable laws and regulations enacted for this substance, particularly when it comes to disposal.

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