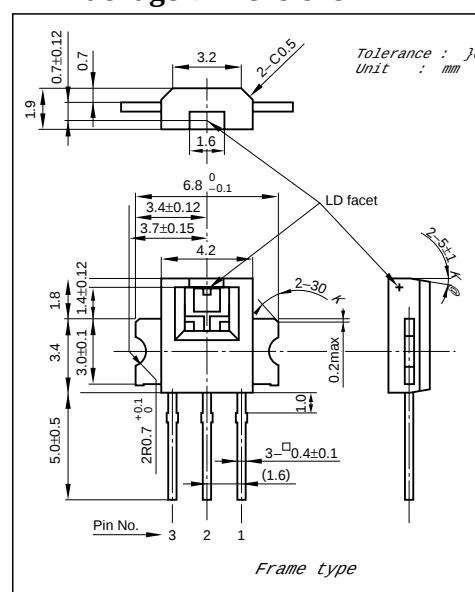


**DL-3150-103****Compact Flat Package Type Laser Diode****Overview**

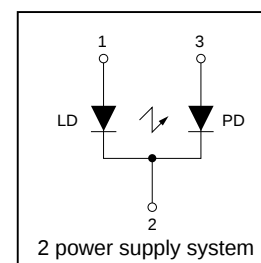
DL-3150-103 is newly developed compact flat package type lasers, which is much different from conventional stem type lasers. The new structure of the frame lead type package enables optical systems to be light weighted and small-sized. DL-3150-103 is suitable for applications such as compact discs, CD-ROM systems, and video disc systems.

Features

- Compact flat package
- Index guided type
- Pin photodiode built-in for light output monitor

Package Dimensions**Absolute Maximum Ratings at Tc=25°C**

Parameter		Symbol	Ratings	Unit
Light Output	CW	Po	5	mW
Reverse Voltage	Laser	VR	2	V
	PIN		30	
Operating Temperature		Topr	-10 to +70	°C
Storage Temperature		Tstg	-40 to +85	°C

Electrical Connection**Electrical and Optical Characteristics 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	—	1.8	2.3	V
Lasing Wavelength		λp	Po=3mW	—	790	805	nm
Beam 1) Divergence	Perpendicular	θ⊥	Po=3mW	25	35	40	deg.
	Parallel	θ//	Po=3mW	8	10	14	deg.
Off Axis Angle	Perpendicular	Δθ⊥	—	—	—	±3	deg.
	Parallel	Δθ//	—	—	—	±2	deg.
Differential Efficiency		dPo/dIop	—	0.18	—	—	mW/mA
Monitoring Output Current		Im	Po=3mW	0.05	0.20	0.40	mA
Astigmatism		As	Po=3mW	—	12	—	μm

1) Full angle at half maximum Note : The above product specification are subject to change without notice.

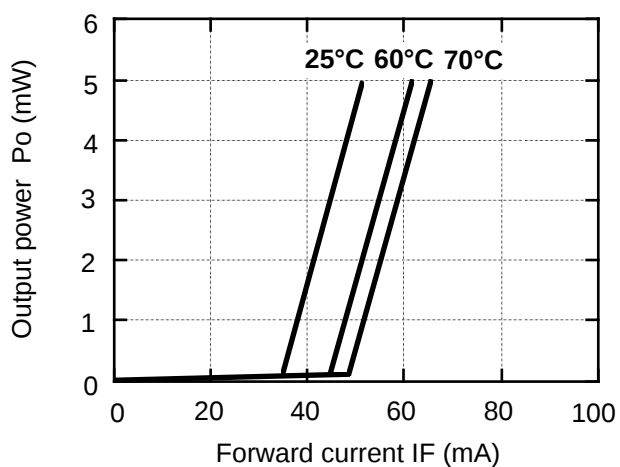
SANYO Electric Co.,Ltd. Semiconductor Business Headquarters

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

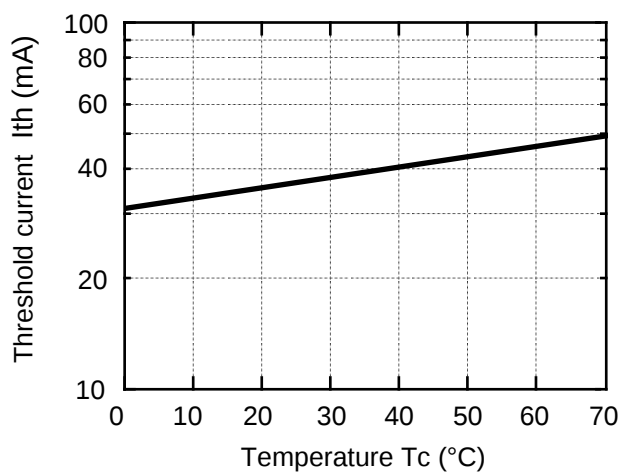
N2798 GI, (IM) No.6090 1/3

Characteristics

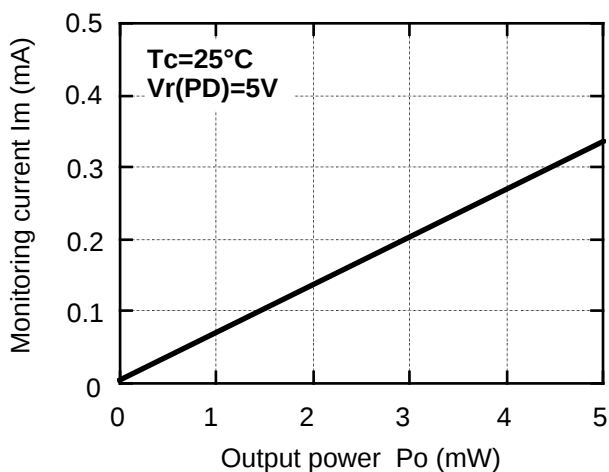
Output power vs. Forward current



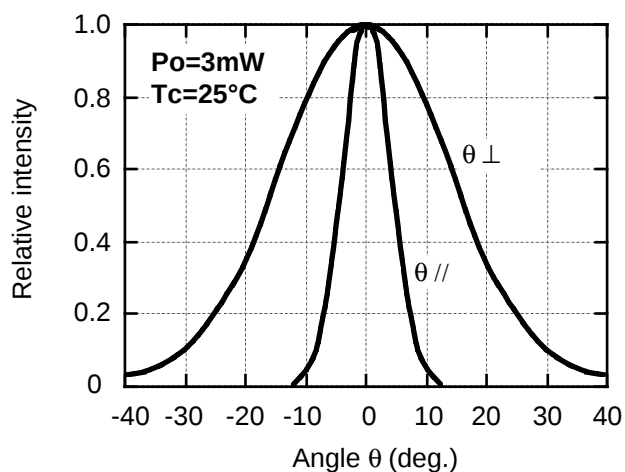
Threshold current vs. Temperature



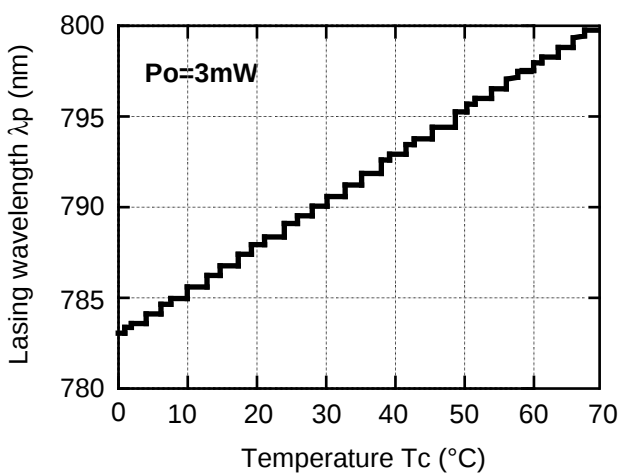
Monitoring current vs. Output power



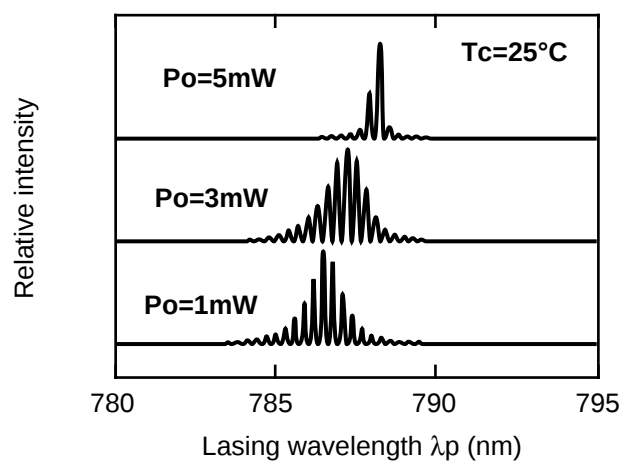
Beam divergence



Lasing wavelength vs. Temperature



Lasing wavelength vs. Output power





1. No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster / crime-prevention equipment or the like, and the failure of which may directly or indirectly cause injury, death or property loss.
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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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