Infrared Laser Diode



DL-3150-101(-102)

Compact Flat Package Type Laser Diode

Overview

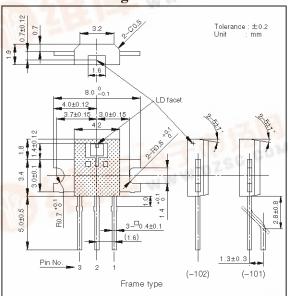
DL-3150-101(-102) is newly developed compact flat package type lasers, which is much different from conventional stem type lasers. The new structure of the frame lead type package enables optical systems to be light weighted and small-sized.

DL-3150-101(-102) 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

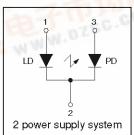
Package Dimensions



Absolute Maximum Ratings at $Tc=25^{\circ}C$

Parameter Parameter		Symbol	Ratings	Unit	
Light Output		Po	5	mW	
Reverse Voltage	Laser PIN	VR	2 30	V	
Operating Temperature		Topr	-10 to +60	$^{\circ}$	
Storage Temperature		Tstg	_40 to +85	$^{\circ}$	

Electrical Connection

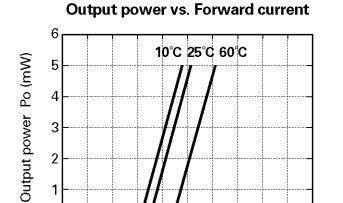


Electrical and Optical Characteristics at Tc=25°C

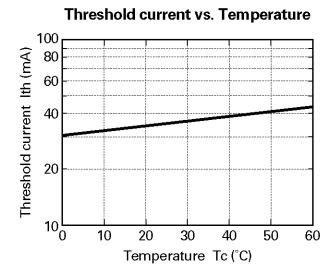
Para	meter	Symbol	Condition	Min.	Тур.	Max.	Unit
Threshol	d Current	Ith	CW	_	35	50	mA
Operating	g Current	Iop	Po=3mW	-	45	60	mA
Operatin	g Voltage	Vop	Po=3mW	-//	1.8	VIVE	V
Lasing W	avelength	λp	Po=3mW	1	790	805	nm
Beam 💥)	Perpendicular	θ⊥	Po=3mW	25	35	45	deg.
Divergence	Parallel	θ //	Po=3mW	8	10	14	deg.
Off Axis	Perpendicular	Δθ⊥	5.60-	-	_	±3	deg.
Angle	Parallel	$\Delta \theta$ //	_	_	_	±2	deg.
Differentia	Efficiency	dPo/dIop	_	0.18	-	-	mW/mA
Monitoring C	utput Current	Im	Po=3mW	0.05	0.20	0.40	mA
Astign	natism	As	Po=3mW	_	12	_	μm

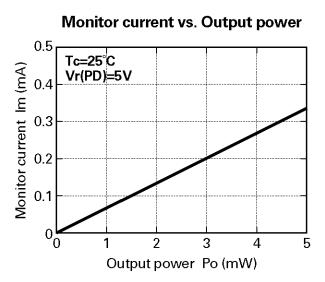
💥) Full angle at half maximum note: The above product specifications are subject to change without notice.

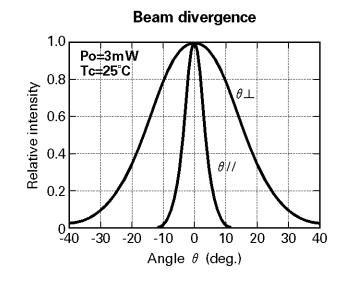
Characteristics

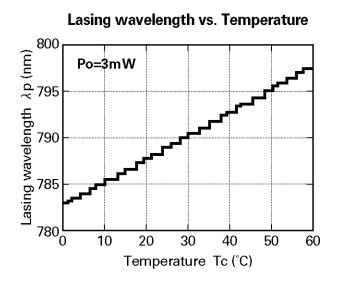


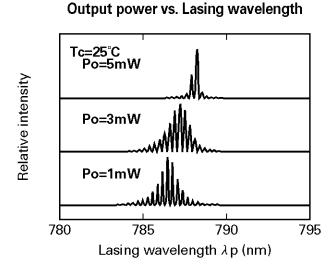
Forward current IF (mA)













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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.

Manufactured by; Tottori SANYO Electric Co., Ltd.

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