

DL-3148-034

Red Laser Diode

Features

Short wavelength : 635 nm (Typ.)
Low threshold current : Ith = 40 mA (Typ.)
High operating temperature : 5 mW at 50°C
Small package : Ø 5.6 mm

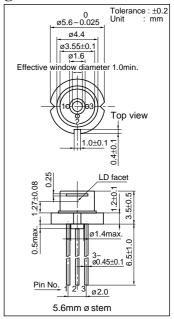
Applications

• Bar-code scanner

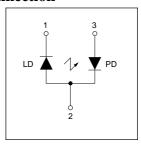
Absolute Maximum Ratings at Tc=25°C

Parameter		Symbol	Ratings	Unit	
Light Output	CW	Po	5	mW	
Reverse Voltage	Laser PD	VR	2 30	V	
Operating Temperature		Topr	-10 to +50	°C	
Storage Temperature		Tstg	-40 to +85	°C	

Package Dimensions



Pin Connection

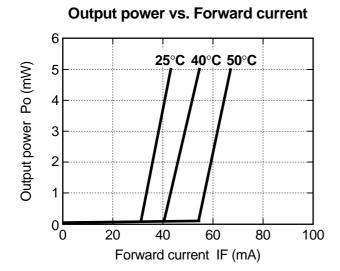


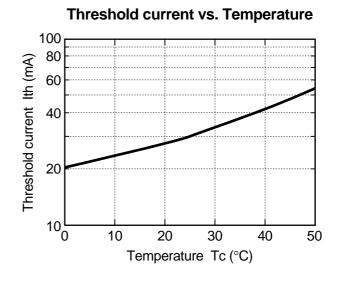
Electrical and Optical Characteristics 1) 2) at Tc=25°C

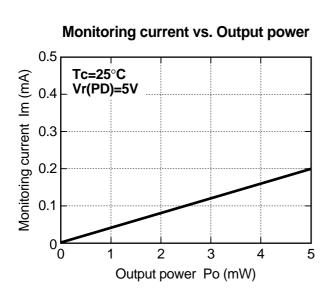
Paran	neter	Symbol	Condition	Min.	Тур.	Max.	Unit
Threshold Curr	rent	Ith	CW	-	40	60	mA
Operating Curr	ent	Iop	Po=5mW	-	55	75	mA
Operating Volta	age	Vop	Po=5mW	-	2.2	2.4	V
Lasing Waveler	ngth	λp	Po=5mW	-	635	645	nm
Beam 3)	Perpendicular	θ⊥	Po=5mW	25	30	35	0
Divergence	Parallel	θ //	Po=5mW	6	8	10	0
Off Axis	Perpendicular	Δθ⊥	-	-	-	±3	0
Angle	Parallel	Δθ//	-	-	-	±3	0
Differential Eff	ficiency	dPo/dIop	-	-	0.4	-	mG/mA
Monitoring Ou	tput Current	Im	Po=5mW	0.1	0.2	0.5	mA
Astigmatism		As	Po=5mW	-	8	-	μm

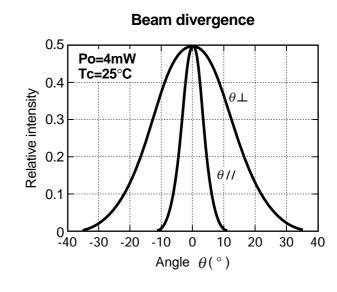
- 1) Initial values 2) All the above values are evaluated with Tottori Sanyo's measuring apparatus
- 3) Full angle at half maximum Note: The above product specification are subject to change without notice.

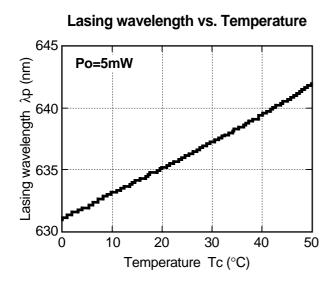
Characteristics

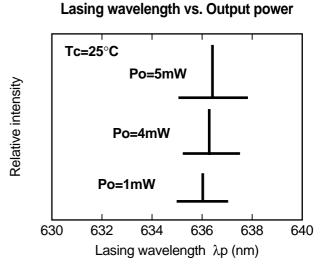














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Precautionary instructions in handling gallium arsenic products

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.

LED Business Unit

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