

# INFRARED LASER DIODE

## DL-7032-001

**SANYO**

Ver.1 Dec. 1999

### Features

- Lasing wavelength : 830 nm (Typ.)
- High output power : 100 mW at 50°C
- Package : ø9.0mm

### Applications

Measurement equipments

### Absolute Maximum Ratings

(Tc=25°C)

Parameter	Symbol	Ratings	Unit
Light Output	CW	Po	mW
Reverse Voltage	Laser	2	V
	PIN	15	
Operating Temperature	Topr	-10 to +50	°C
Storage Temperature	Tstg	-40 to +85	°C

### Electrical and Optical Characteristics 1)

(Tc=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	
Threshold Current	Ith	CW	-	50	70	mA	
Operating Current	Iop	Po=100mW	-	140	180	mA	
Operating Voltage	Vop	Po=100mW	-	1.9	2.4	V	
Lasing Wavelength	Lp	Po=100mW	810	830	840	nm	
Beam Divergence 2)	Perpendicular	Qv	Po=100mW	12	18	23	°
	Parallel	Qh	Po=100mW	5	7	11	°
Off Axis Angle	Perpendicular	dQv	Po=100mW	-	-	± 3	°
	Parallel	dQh	Po=100mW	-	-	± 3	°
Differential Efficiency	dPo/dIop	-	0.6	1.0	1.3	mW/mA	
Monitoring Output Current	Im	Po=100mW	0.05	0.3	-	mA	
Astigmatism	As	Po=100mW	-	-	10	μm	

1) initial values, 2) full angle at half maximum,

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

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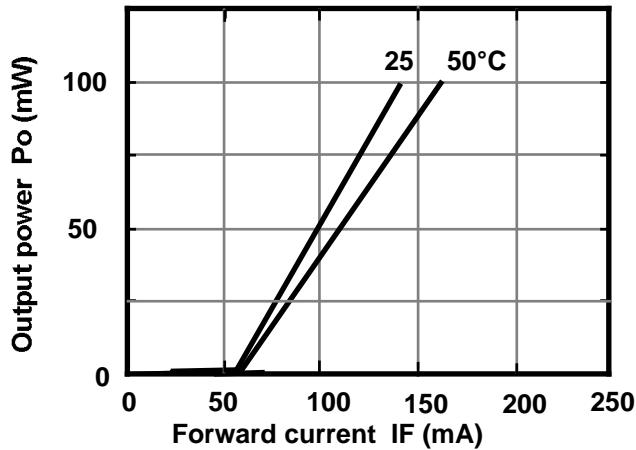
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**DL-7032-001**

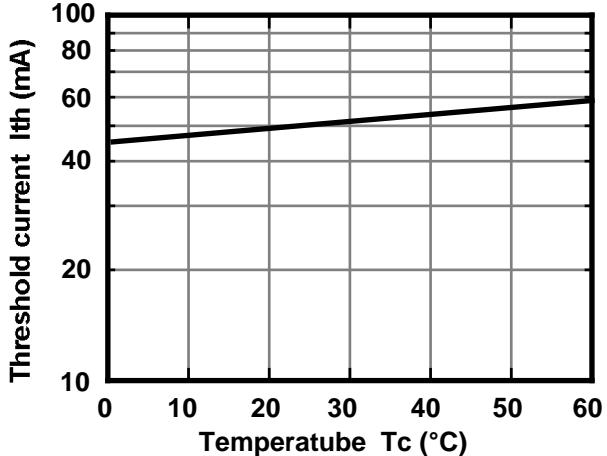
**SANYO**

## Characteristics

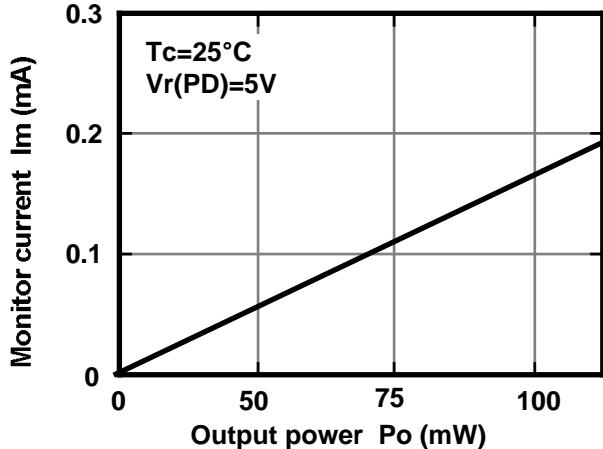
**Output power vs. Forward current**



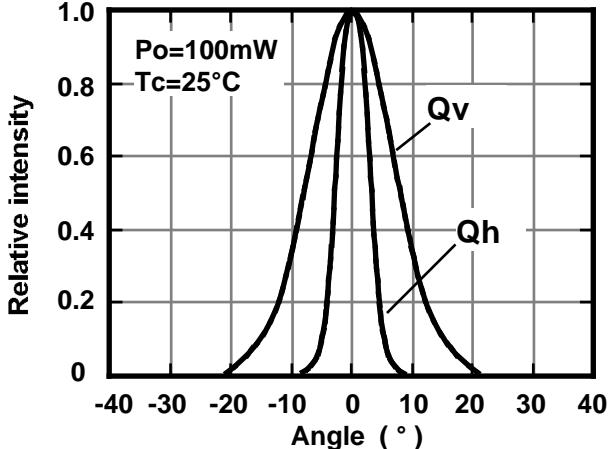
**Threshold current vs. Temperature**



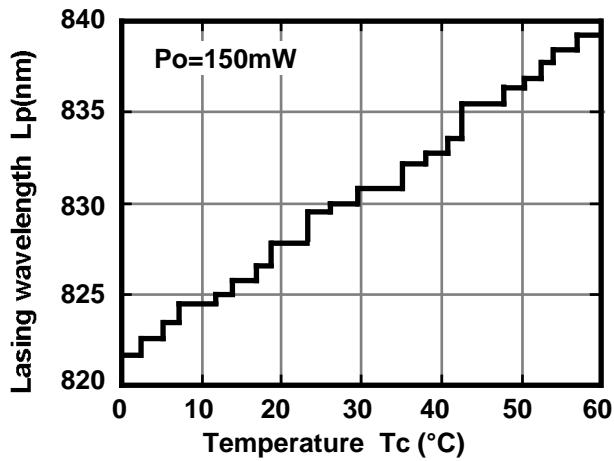
**Monitor current vs. Output power**



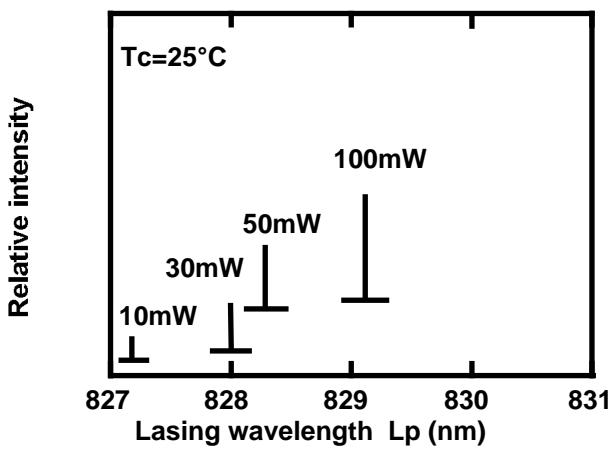
**Beam divergence**



**Lasing wavelength vs. Temperature**



**Output power vs. Lasing wavelength**



This is typical data and it may not represent all products.