NVG, INC.

VISIBLE LASER DIODES

Technical Data

MODEL # D660-5

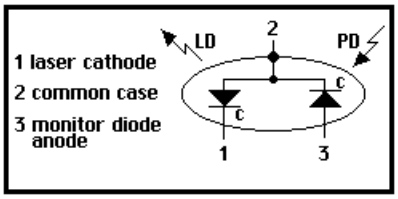
VISIBLE DIODE LASER ABSOLUTE MAXIMUM RATINGS - (Tc=25 °C)

TECHNICAL DATA

- **Index Guided MQW Structure**
- **Wavelength: 660nm (Typ.)**
- **Optical Power: 5mW CW**
- **Threshold Current: 20mA (Typ.)**
- **Standard Package: 5.6mm**

Visible light output	650nm
Optical power output	5mW CW
Package Type	5.6mm
Built-in photo diode for monitoring laser output	

Pin Out Diagram



Items	Symbols	Values	Unit
Optical output power	Po	7	mW
Laser diode reverse voltage	VLDR	2	V
Photo diode reverse voltage	VPDR	30	V
Operating temperature	Topr	-10 ~ +60	°C
Storage temperature	Tstg	-40 ~ +85	°C

OPTICAL and ELECTRICAL CHARACTERISTICS - (Tc=25 ºC)

Items	Symbols	Min.	Typ.	Max.	Unit	Test Condition
Optical output power	Po	-	5	-	MW	-
Threshold current	Ith	-	20	40	mA	-
Operating current	Iop	-	40	60	mA	Po=5mW
Operating voltage	Vop	-	2.7	-	V	Po=5mW
Lasing wavelength	8Δ	655	660	665	nm	Po=5mW
Beam divergence	θΦ	-	5	11	deg	Po=5mW
Beam divergence	θζ	-	25	37	deg	Po=5mW
Slope Efficiency (mW/mA)	0	0.3	0.7	0.9		-
Monitor current	Im	-	10	20	μA	Po=5mW,VR=5V
Astigmatism	As	-	11	-	μm	Po=5mW
MTTF			10,000 hrs.			Po=5mW,NA=0.4

Emitter Distance to Cap Lens	0.3mm
Emitter Size	1 x 4 Microns
Structure	Index Guided

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