# **UOS Red Laser Diode New Products**-preliminary spec-

Specifications in the presentation are preliminary and subject to change without any notice

USHIO OPTO SEMICONDUCTORS, INC. Application Engineering Section

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#### **CONFIDENTIAL**

## 639nm / 200mW CW HL63583DG





### **HL63583DG Preliminary Specification (1)**

#### **Features:**

Optical output power: 200mW (CW, 25°C)

135mW (CW, 50°C)

Red light emitting: 639 nm

Single transverse mode

Small package: φ5.6mm CAN Package

Internal circuit: Floating circuit

Application: Show Laser

Schedules: WS: 2019/10 MP: 2019/12





## **HL63583DG Preliminary Specification (2)**

#### Absolute Maximum Ratings (Tc=25°C)

Items	Symbols	Unit	Value	Test conditions
Optical output power (25°C)	Ро	mW	210	CW
Optical output power (50°C)	Ро	mW	135	CW
LD reverse voltage	VR(LD)	V	2	
Operating temperature	Topr	°C	-10 to 50	Note1
Storage temperature	Tstg	°C	-40 to 85	

#### Optical and Electrical Characteristics (Tc=25°C)

Items	Symbols	Unit	Value			Toot conditions
			Min.	Ave.	Max.	Test conditions
Threshold current	lth	mA	•	65	80	CW
Operating current	lop	mA	-	255	290	CW, Po=200mW
Operating voltage	Vop	V	-	2.8	3.3	CW, Po=200mW
Lasing wavelength	λр	nm	633	639	643	CW, Po=200mW
Beam divergence parallel to the junction	θ//	0	5	8.5	13	CW, Po=200mW,FWHM
Beam divergence perpendicular to the junction	θΤ	o	10	14	18	CW, Po=200mW,FWHM

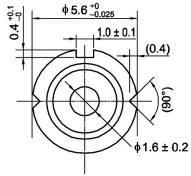
Note1) Operating temperature "Topr" is defined by Case temperature "Tc".

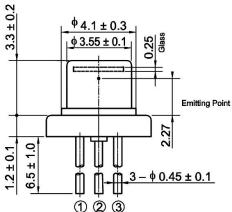


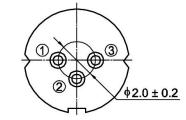


## **HL63583DG Preliminary Specification (3)**

#### Outline

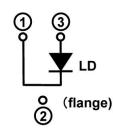






#### ■ Internal circuit

#### -HL63583DG



Unit: mm

