



更履历史表

版本	变更前内容	变更后内容	编制	审核	变更日期
01	——	初版	林志龙	杨啸威	2022.06.27



905 nm DFB LD TO-CAN(TO56-3pin)-20W

Features:

- Laser wavelength 905 nm
- Suited for short laser pulses from 1 to 100 ns
- Robust TO-can package for high volume applications
- Not released for automotive applications

Applications:

- 3D Sensing, Electronic Equipment, Industrial Automation (Machine Controls, Light Barriers, Vision Controls)

Specifications:

Absolute Maximum Ratings:

Parameter	Symbol	Min.	Max.	Unit
Reverse Voltage	V_r	—	2.5	V
Forward Current	I_f	—	6	A
Peak output power	P_{opt}	—	25	W
Pulse width (FWHM)	t_p	—	100	ns
Duty cycle	dc	—	0.1	%
Operating Temperature	T_{op}	-40	+85	°C
Storage Temperature	T_{stg}	-40	+100	°C
Lead Solder Temperature	—	—	260	°C
Lead Solder Time	—	—	10	s

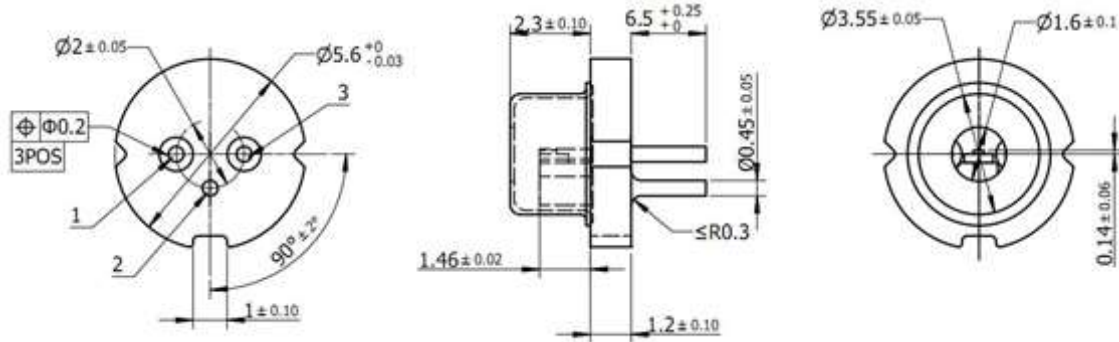
Characteristics: ($T_a=25^\circ\text{C}$ $I_F = 7\text{ A}$; $t_p = 100\text{ ns}$; $D = 0.01\%$)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Threshold Current	I_{th}	—	1	—	A
Optical Output Power	P_{out}	—	20	—	W
Forward Voltage	V_f	—	16	—	V
Peak wavelength	λ_p	895	905	915	nm
Spectral bandwidth (FWHM)	$\Delta\lambda$	—	—	5	nm
Beam divergence (FWHM) parallel to pn-junction	$\theta_{//}$	—	—	10	°
Beam divergence (FWHM) perpendicular to pn-junction	θ_{\perp}	—	—	30	°



Laser aperture (FWHM) parallel to pn-junction	W_{\parallel}	—	40	—	μm
Laser aperture (FWHM) perpendicular to pn-junction	W_{\perp}	—	10	—	μm

Mechanical Dimension and Pin Assignment:



引脚定义: 1.空
2.负电极
3.正电极

Order Information:

LD	DFB	—	□	—	□	—	□	—	□
<u>Emission Wavelength:</u> 905nm		<u>Header Type:</u> TO56		<u>Numbers of Pin:</u> 3pin		<u>Peak output power:</u> 20W			

Product Specification: 5040900400

Statement:

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