



## 905 nm DFB LD TO-CAN(TO56-3pin)-75W

### 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	$I_f$	—	40	A
Peak output power	$P_{opt}$	—	100	W
Pulse width (FWHM)	$t_p$	—	200	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

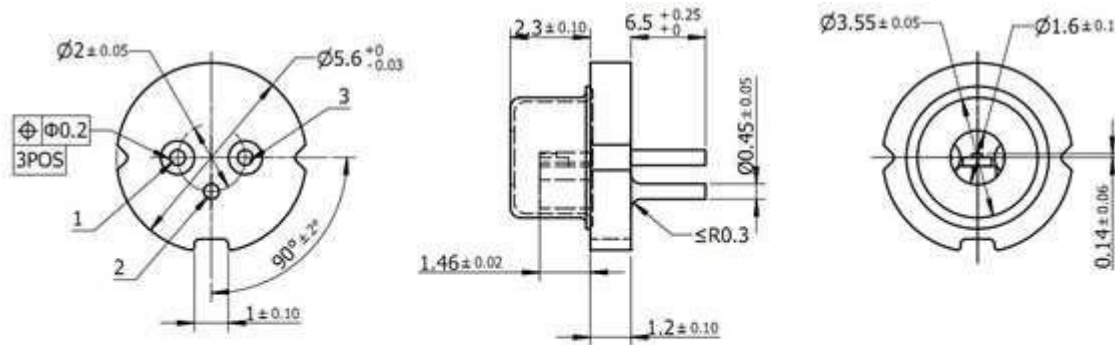
#### Characteristics: ( $T_a=25^\circ\text{C}$ $I_f=30\text{ A}$ ; $t_p=200\text{ ns}$ ; $D=0.01\%$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit
Threshold Current	$I_{th}$	—	1	1.5	A
Optical Output Power	$P_{out}$	—	75	—	W
Forward Voltage	$V_f$	—	15	—	V
Peak wavelength	$\lambda_p$	895	905	915	nm
Spectral bandwidth (FWHM)	$\Delta\lambda$	—	—	7	nm
Beam divergence (FWHM) parallel to pn-junction	$\theta_{//}$	—	—	12	°
Beam divergence (FWHM) perpendicular to pn-junction	$\theta_{\perp}$	—	—	31	°



Laser aperture (FWHM) parallel to pn-junction	$W_{  }$	—	190	—	$\mu\text{m}$
Laser aperture (FWHM) perpendicular to pn-junction	$W_{\perp}$	—	10	—	$\mu\text{m}$

## Mechanical Dimension and Pin Assignment:



引脚定义: 1.空  
2.负电极  
3.正电极

## Order Information:

LD	DFB	—	<input type="checkbox"/>	—	<input type="checkbox"/>	—	<input type="checkbox"/>	—	<input type="checkbox"/>
<u>Emission Wavelength:</u>		<u>Header Type:</u>		<u>Numbers of Pin:</u>		<u>Peak output power:</u>			
905nm		TO56		3pin		75W			

## Product Specification: 5040900600

### Statement:

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第 4 页 共 4 页

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