YL-TO18F(90)-650nM(1mW) Rev 2.0

650nm RCLED TOCAN Package

Features

- : 650 nm wavelength range
- : No threshold
- : Designed for POF data communications
- : Flat window Type TO-18 Can Package
- : Other configurations available on request

Description



Applications

- : Data Link Communication
- : IEEE1394.b
- : Home Networking
- : Sensors

Absolute Maximum Ratings

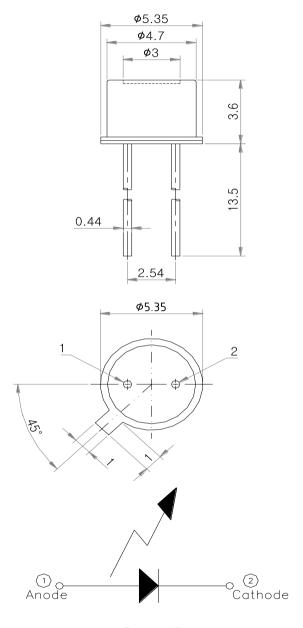
Parameter	Rating				
Storage Temperature	-40 to 100℃				
Operating Temperature	-20 to 70℃				
Lead Solder Temperature	260°C 10sec				
Continuous Forward Current	30mA				
Continuous Reverse Voltage	5V (@10μA)				

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Dimensions

Unit:mm



Bottom View

PIN OUT

YL-TO18F(90)-650nM(1mW)			
Number	Function		
1	A _{RCLED}		
2	K _{RCLED}		

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Electro-Optics Characteristics (T_a=25°C unless otherwise stated)

Parameters	Symbol	Specified			Unit	Test Conditions
Parameters	Symbol	Min.	Тур.	Max.	Unit	Test Conditions
Total Radiant Flux	Фо		1	1.5	mW	I _f =20mA *
Radiant Intensity	P _o	0.2	0.3		mW/sr	I _f =20mA**
Peak Wavelength	λ _P	640	650	660	nm	I _f =20mA**
Spectral Width	Δλ		7		nm	T _a =0 to 70 °C at 20mA**
Beam Divergence	Θ		90		Deg.	I _f =20mA, FWHM
Forward Voltage	V _f		2.0	2.2	V	I _f =20mA
Rise Time / Fall Time	t _R / t _F		3/3		ns	I _f =20mA, (10% - 90%)
Data Rate	T_Data		155		Mbps	I _f =20mA

Test Data were measured in TO header of wire bonded chip

^{* **} Value is referenced to the vender's measurement system (correlation to customer product is required).

		Thermal Characteristics
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Parameters	Symbol		Specified		Unit	Test Conditions
Parameters	Зупівої	Min.	Тур.	Max.	Unit	rest Conditions
P _o Temp Coefficient	Δ P $_{o}$ / Δ T		-0.6		%/℃	-20 °C ~ 70 °C at If=20mA
λ _P Temp Coefficient	Δλ /ΔΤ		0.07		nm/℃	-20 °C ~ 70 °C at If=20mA

Notes

DANGER

The inherent design of this component causes it to be sensitive to electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product

The RCLED should be treated as a potential eye hazard. Due to the size of the component, the applicable warning logotype, aperture label, and certification / identification label cannot be placed on the component itself.

^{*} Measured in integrating sphere

^{**} Measured in axial direction (0.01sr)

^{*} These specifications are subject to change without notice