

# Opto Speed

## FP-Laser 1550 nm

### LCSL1550A-FP

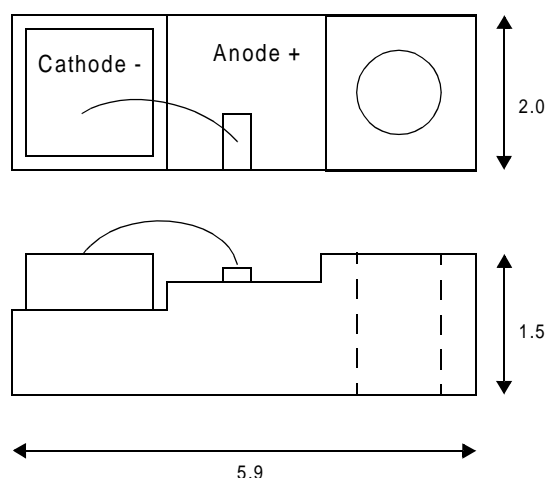
#### ■ FEATURES

Low Threshold  
High Power  
High Temperature  
Circular Output Beam  
SQW Active Layer

Kyocera SML-2 Submount

#### ■ PRODUCT DESCRIPTION

The LCSL1550A-FP is a semiconductor Fabry Perot laser working at 1550 nm for applications up to 85C with no need for temperature stabilization. The device can be delivered on as bare die or as chip on submount. The low threshold and the excellent high temperature behaviour make possible the fabrication of output power stabilized fibre modules just by using a monitor photodiode and an AGC control circuit..



#### ■ SPECIFICATIONS @ T<sub>ambient</sub> = 20C

Parameter	Conditions	LCSL1550A-FP			UNIT
		Min	Typ	Max	
Supply current		0		50	mA
Threshold current			6		mA
Threshold current	0-85 C	4		30	mA
Output power	I <sub>th</sub> +40 mA		8		mW
3 dB modulation bandwidth	I <sub>th</sub> +40 mA		5		GHz
Central wavelength		1540	1550	1560	nm
ext. quantum efficiency			0.2		W/A
Vert. far field angle	FWHM		34		deg
Hor. far field angle	FWHM		34		deg
Relative noise intensity	I <sub>th</sub> +40mA		-135		dB/Hz