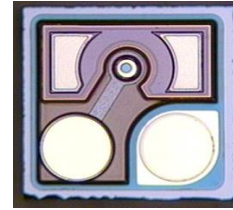


**Features**

- : Multi-mode 850nm wavelength range
- : Data Rate up to 25Gbps
- : Two top-side wire bond pads

**Description**



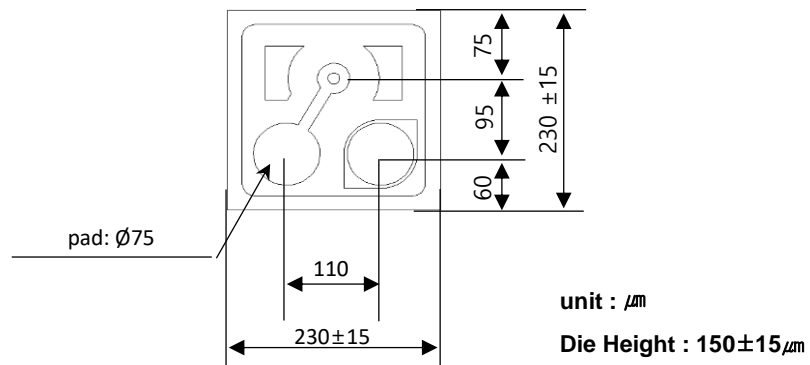
**Applications**

- : High speed Data Communications
- : Gigabit Ethernet
- : Fiber Channel

**Absolute Maximum Ratings**

Parameter	Rating
Storage Temperature	-40 to 100 °C
Operating Temperature	-40 to 85 °C
Continuous Forward Current	10mA
Continuous Reverse Voltage	5V (@10μA)

**Dimensions**

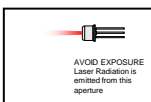


**Electro-Optics Characteristics (  $T_a=25^\circ\text{C}$  unless otherwise stated)**

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Threshold Current	$I_{th}$		0.6		mA	CW
$I_{th}$ Temperature Variation	$\Delta I_{th}$		1.0		mA	$T_a = -40$ to $85^\circ\text{C}$
Slope Efficiency	$\eta$		0.5		W/A	$I_f = 6\text{mA}$
$\eta$ Temperature Variation	$\Delta\eta / \Delta T$		-0.4		%/ $^\circ\text{C}$	$T_a = -40$ to $85^\circ\text{C}$ at 6mA
Optical Output Power	$P_o$		3.5		mW	$I_f = 6\text{mA}$
Peak Wavelength	$\lambda$	840	850	860	nm	$I_f = 6\text{mA}$ , R.T
$\lambda$ Temperature Variation	$\Delta\lambda / \Delta T$		0.06		nm/ $^\circ\text{C}$	$T_a = -40$ to $85^\circ\text{C}$ at 6mA
Spectral Bandwidth (RMS)	$\Delta\lambda$			0.65	nm	$I_f = 6\text{mA}$
Beam Divergence	$\Theta$	14		33	$^\circ$	$I_f = 6\text{mA}$ ( Full Width, $1/e^2$ )
Operating Voltage	$V_f$		2.2	2.6	V	$I_f = 6\text{mA}$
Breakdown Voltage	$V_b$		-8		V	
Dynamic Resistance	$R_d$		80	100	Ohm	$I_f = 6\text{mA}$
Small Signal Bandwidth	f-3dB		18		GHz	$I_f = 6\text{mA}$ , R.T

**Notes**

\* These specifications are subject to change without notice.



<b>NOTICE</b>	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
<b>DANGER</b>	The VCSEL is a class IIIb laser and 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.