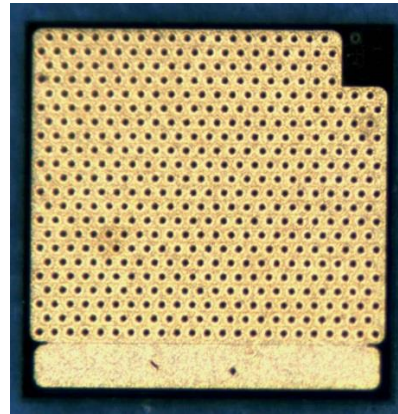




**Features**

- : 940nm wavelength range
- : > 2W Peak VCSEL by pulse mode operation
- : Multi mode beam profile
- : High reliability
- : Other configurations available on request

**Description**



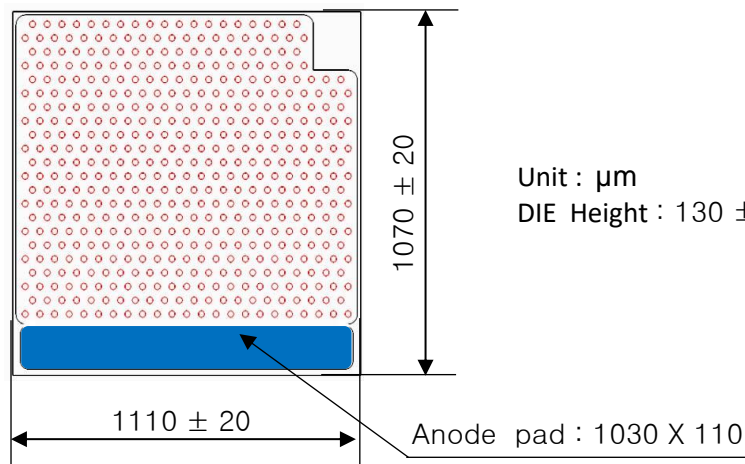
**Applications**

- : Consumer electronics
- : Safety sensor
- : Illumination light source
- : Gesture sensor light source

**Absolute Maximum Ratings**

Parameter	Rating
Storage Temperature	-40 to 85 °C
Operating Temperature	-20 to 85 °C
Continuous Forward Current	4.5 A(max 10 sec)
Continuous Reverse Voltage	5 V(max 10 sec)

**Dimensions**



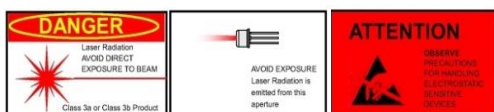


▶ Electro-Optics Characteristics ( 10% duty cycle, pulse length =0.1ms, T<sub>a</sub>=60°C unless otherwise stated)

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Threshold Current	I <sub>th</sub>		0.6		A	CW
Peak Optical Output Power	P <sub>o</sub>		2		W	I <sub>f</sub> = 3 A
Operating Voltage	V <sub>f</sub>		2.1		V	I <sub>f</sub> = 3 A
Power Conversion Efficiency	PCE		30		%	I <sub>f</sub> = 3 A
Peak Wavelength	λ <sub>p</sub>	930	940	950	nm	I <sub>f</sub> = 3 A
Spectral Bandwidth (RMS)	Δ λ		2.0		nm	I <sub>f</sub> = 3 A
Beam Divergence	Θ		22		°	I <sub>f</sub> = 3 A(Full Width, 1/e <sup>2</sup> ), Room temp.
ESD Voltage	V <sub>ESD</sub>	5000				HBM mode, Room temp.

▶ Notes

\* These specifications are subject to change without notice.

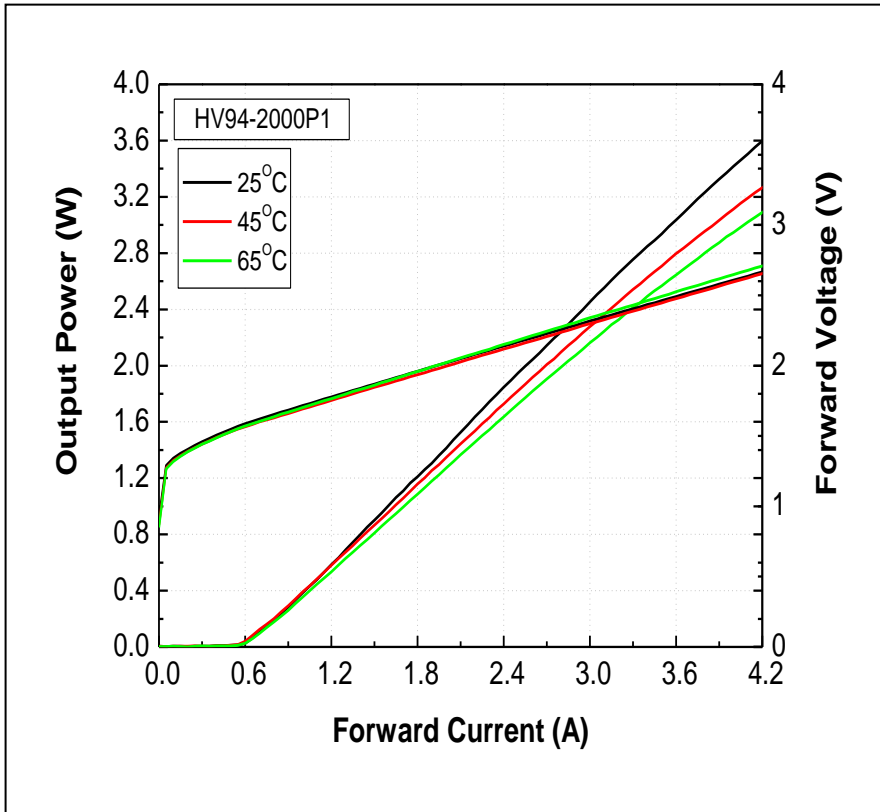


<b>NOTICE</b>	The inherent design of this component causes it to be sensitive to electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product
<b>DANGER</b>	The VCSEL is a class IIIb laser and should be treated as a 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.



Characteristics Curves

L-I-V-Temperature



Power Conversion Efficiency

