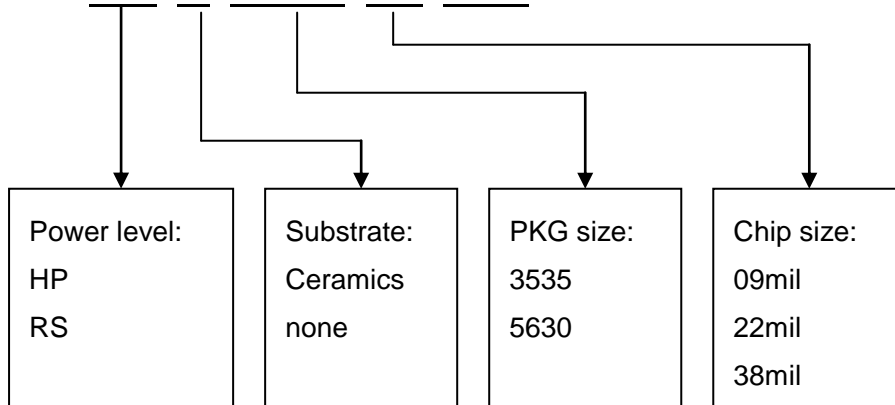


850nm VCSEL - 350mA

3535 package

Part number

HP-C-3535-22-850

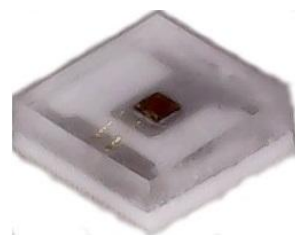
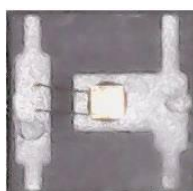


Features

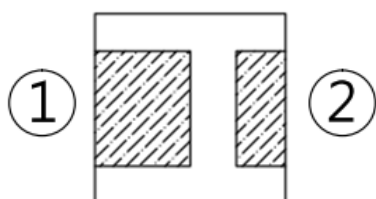
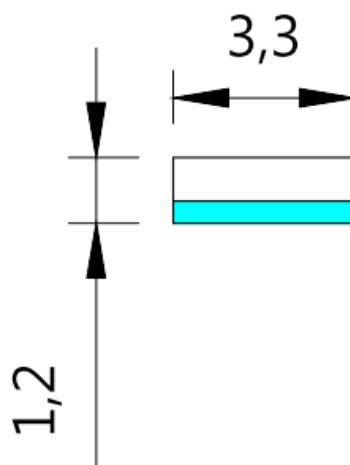
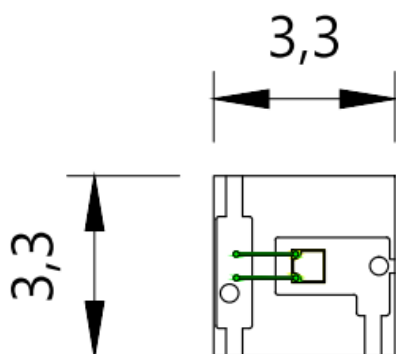
- 850nm Vertical-Cavity Surface-Emitting Laser
- Low Dependence of Electrical and Optical Characteristics over Temperature

Applications

- Automotive sensing
- Gesture Recognition
- Time of Flight
- IR illumination



Sample dimension / Unit: mm



Electro-Optical Characteristics @ Ta = 25°C

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF = 350 mA	-	2.2	-	V
Threshold Current	Ith	-	-	150	-	mA
Slop Efficiency	η	IF = 500 mA		0.6		mW /mA
Wavelength	λ_p	IF = 350 mA	-	850	-	nm
Spectral width at half height	$\Delta \lambda$	IF = 350 mA	-	4	-	nm
Output Power	Po	IF = 350 mA	150	-	-	mW

Typical Electro-Optical Characteristics Curce

Fig 1. Forward Current vs. Forward Voltage

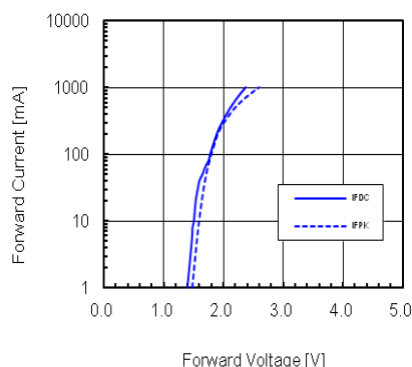


Fig 2. Relative Radiant Power vs Wavelength

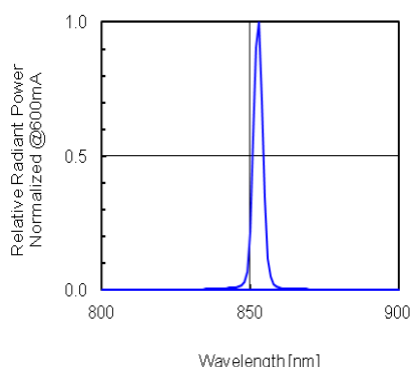


Fig 3. Relative Radiant Power vs. Forward DC Current

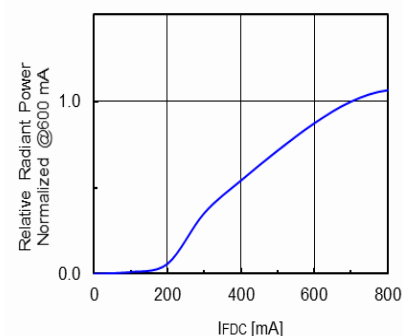


Fig 4. Relative Radiant Power vs. emission angle

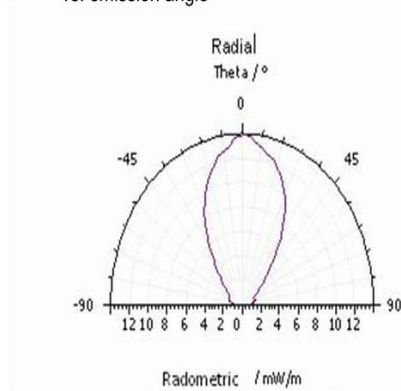


Fig 5. Forward DC Voltage vs. Temperature

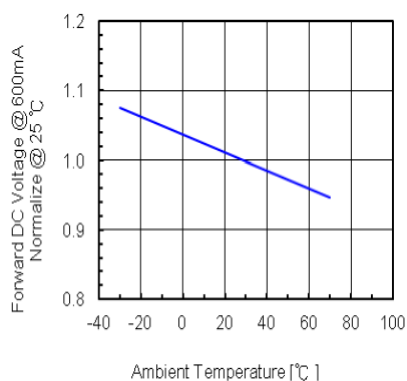
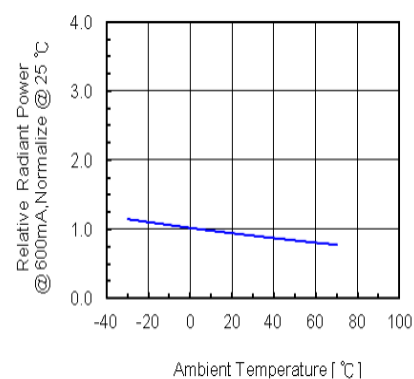
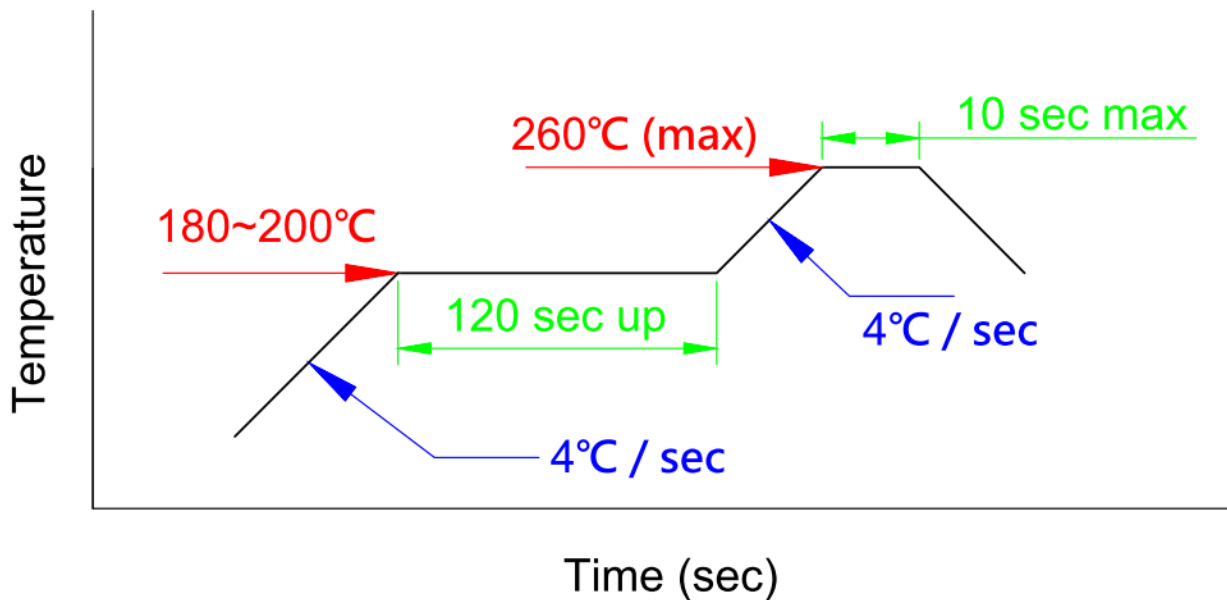


Fig 6. Relative Radiant Power vs. Temperature



Reflow Soldering Profile

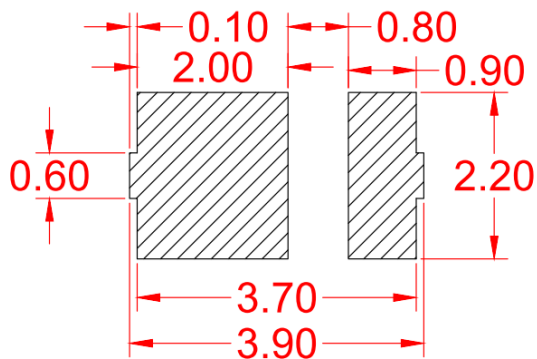


- Reflow soldering should not be done more than twice .
- When soldering , do not put stress on the Modules during heating .

Soldering iron

- When hand soldering, the temperature of the iron must be $\leq +300^{\circ}\text{C}$ for 3 seconds .
- Hand soldering should be performed only once .

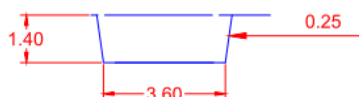
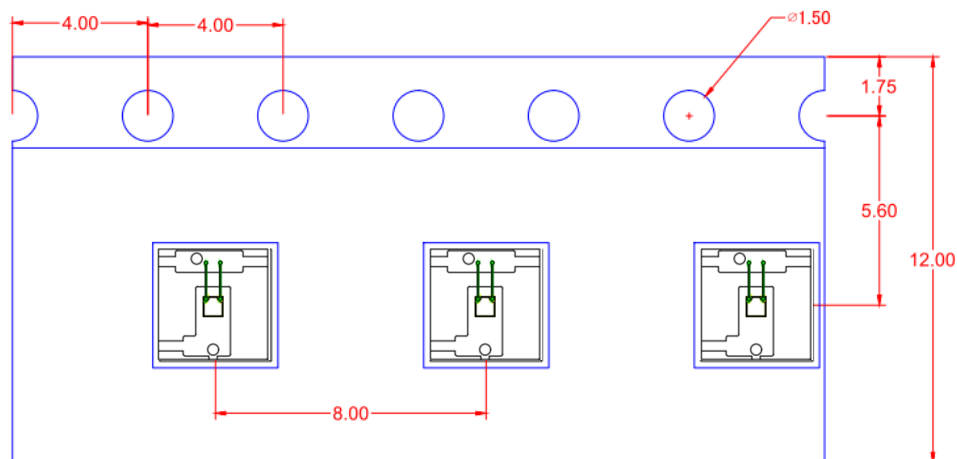
Reflow Soldering



unit : mm

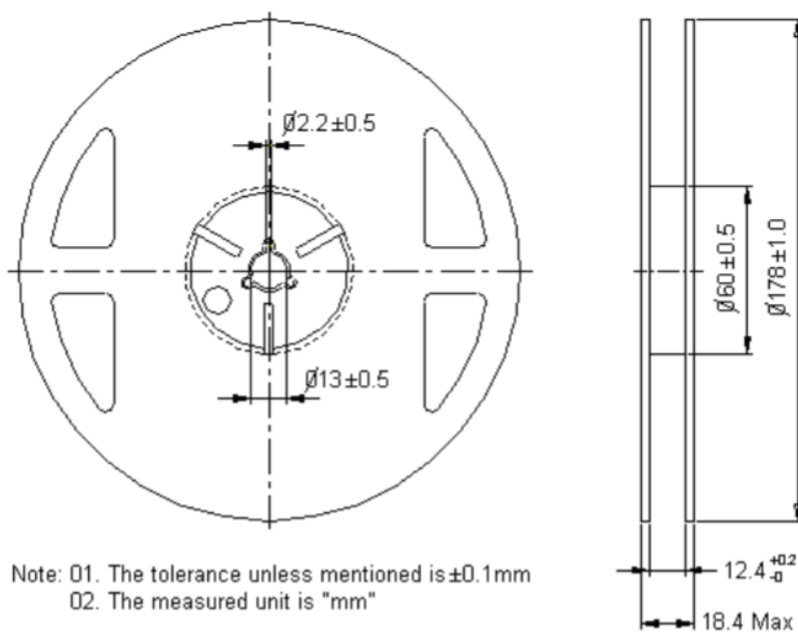
Packaging Specification

Dimensions of Tape



unit : mm

Dimensions of Reel



- 1 Reel / bag.
- Qty: 1000 PCS / Reel