

Feature:

- Water Clear transparent lens
- Package in bulk pack (Available in tape/reel)
- High radiant intensity
- 3mm round type TH lamp
- 2.54mm Lead spacing
- Peak wavelength $\lambda_P = 940\text{nm}$
- 35° ; 40° ; 50° viewing angle
- GaAs technology

Description:

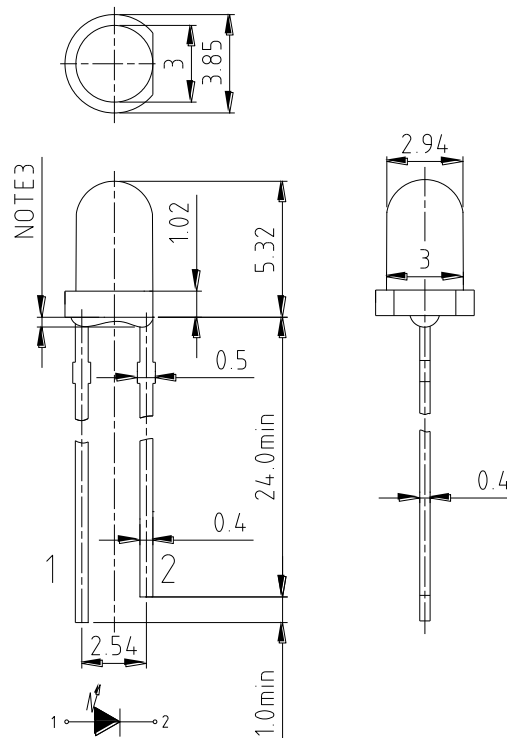
High intensity diode, molded in a water clear transparent plastic package. This device is spectrally matched with phototransistor, photodiode and infrared receiver module.

Application:

- Free air transmission system
- Optoelectronic switch
- Infrared applied system
- Smoke Detector

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant

**Dimension:**

Units: mm / tolerance = +/-0.25mm

Electrical / Optical Characteristic: (T=25 °C)

Product	I _F (mA)	V _F (V)		λ _P (nm)			I _e (mW/sr)		Viewing Angle 2θ _{1/2}	I _R (μA)
		Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Typ.	
QBEC5135	50	1.3	2.2	930	940	960	7	17	35	10
QBEC5140	50	1.3	2.2	930	940	960	7	15	40	
QBEC8150	50	1.3	2.2	930	940	960	7	18	50	

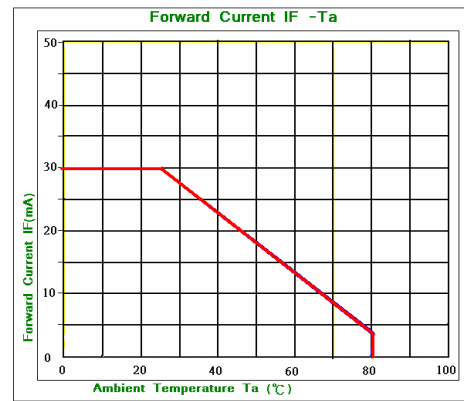
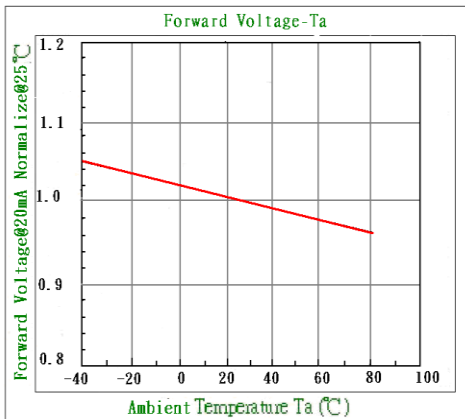
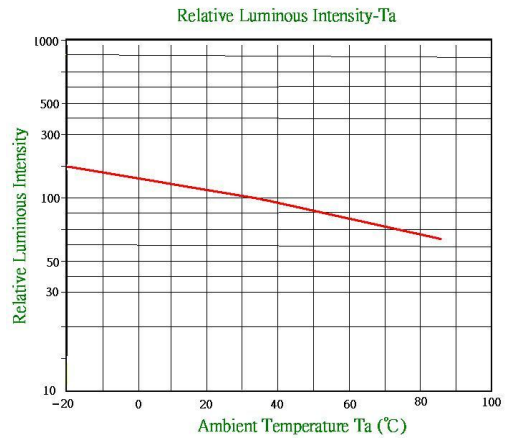
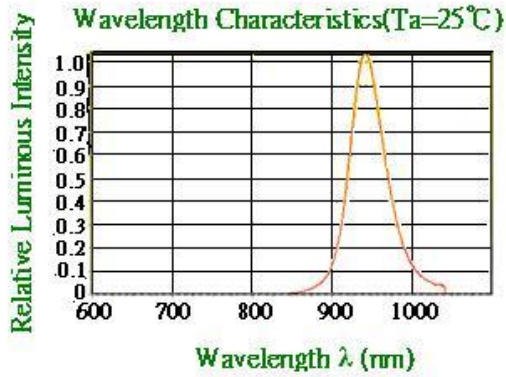
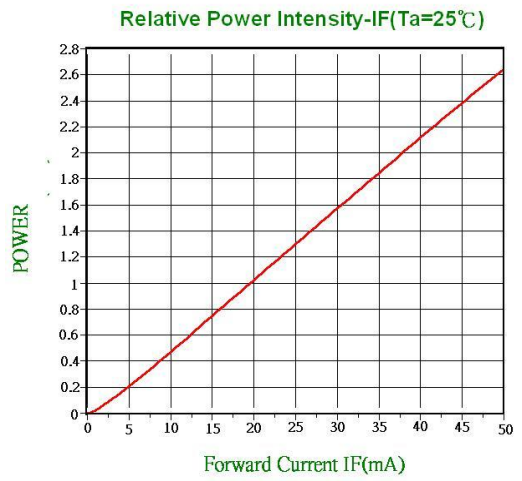
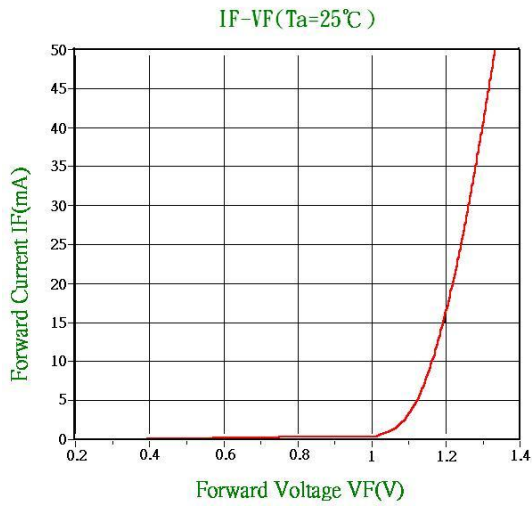
Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
GaAs	150	70	100	5	-40 ~ +80	-40 ~ +100	260

*Duty 1/10 @ 10KHz

** IR Reflow for no more than 10 sec @ 260 °C

Characteristic Curves:



Packing & Labeling: TBD**Ordering Information:**

Part #	Orderable Part #	Spec Range	Quantity per bag
QBEC5135	QBEC5135	Radiant Intensity = 17mW/sr typical @ 20mA	-
QBEC5140	QBEC5140	Radiant Intensity = 15mW/sr typical @ 20mA	-
QBEC5150	QBEC5150	Radiant Intensity = 18mW/sr typical @ 20mA	-

Revision History:

Description:	Revision #	Revision Date
New Release of QBEC51XX	V1.0	6/3/2011