

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 $\lambda_P = 850\text{nm}$
- 45 °viewing angle
- AlGaAs technology

Description:

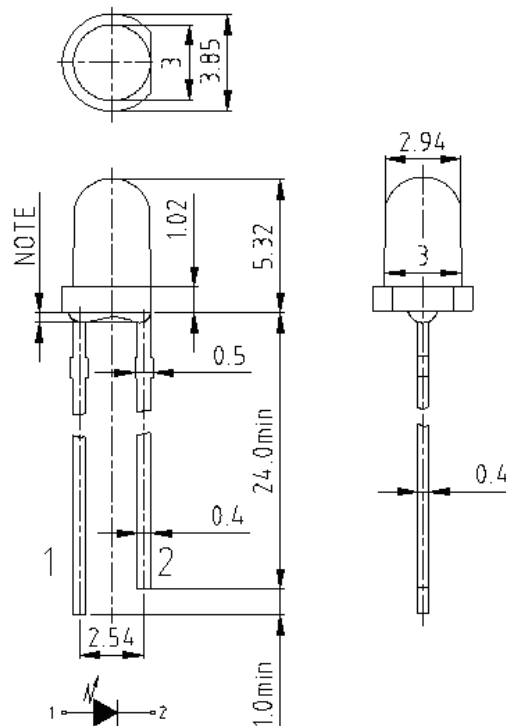
High intensity diode, molded in a water clear transparent plastic package. This device is spectrally matched with phototransistor, photodiode and infrared receiver module.

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.	
QBEC5345	50	15	2.2	820	850	880	9.8	26.55	45	10

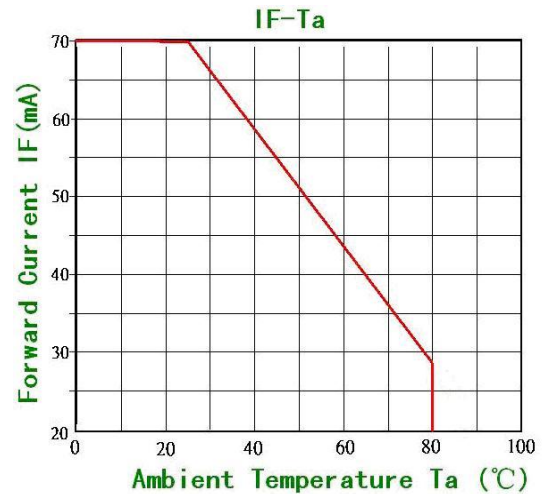
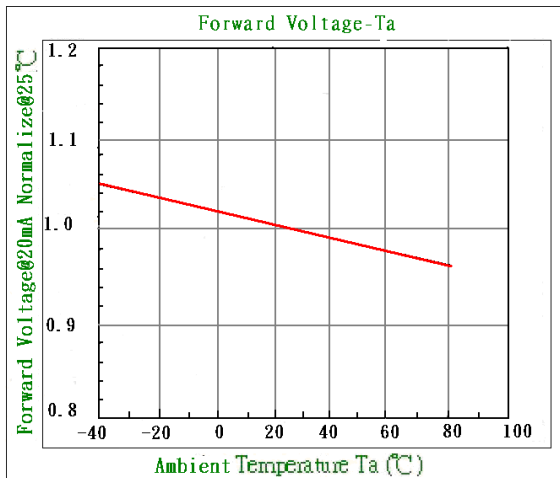
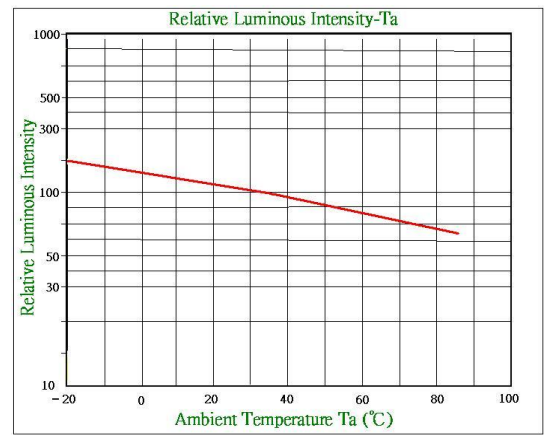
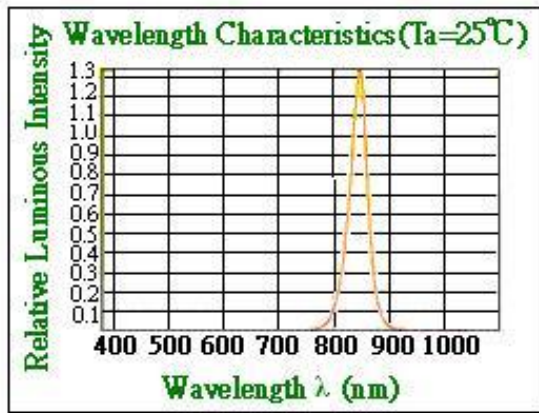
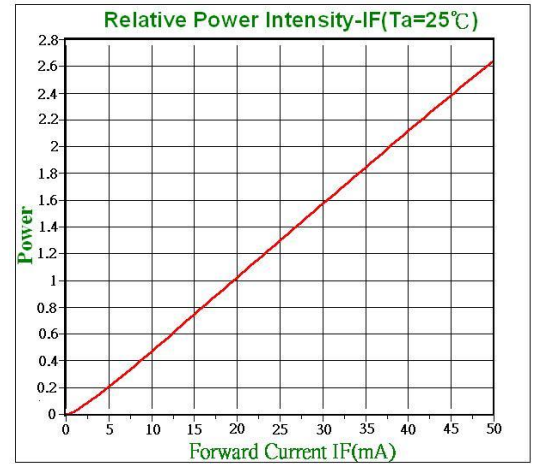
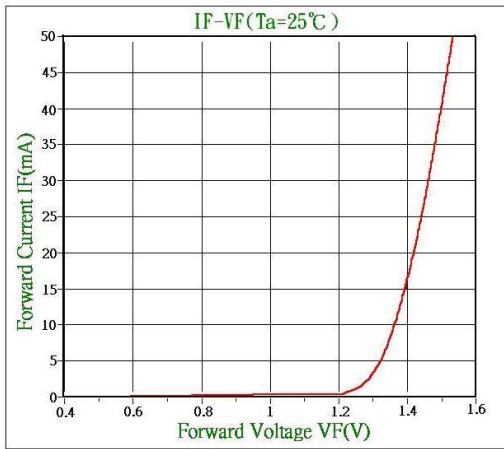
Absolute Maximum Rating

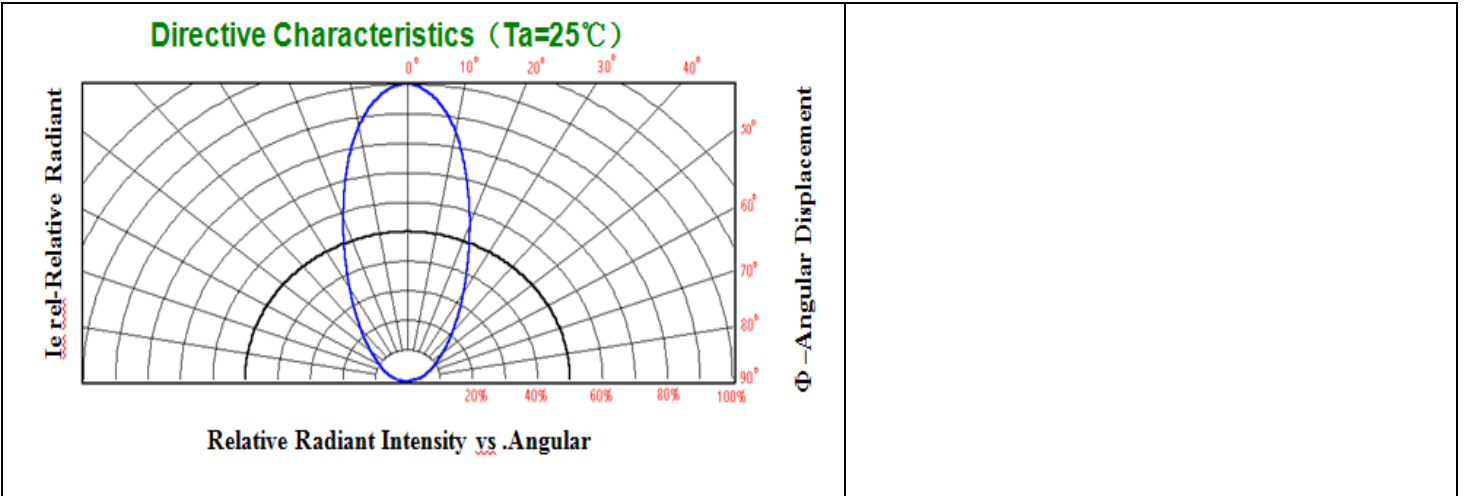
Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
AlGaAs	150	70	100	5	-40 ~ +80	-40 ~ +100	260

*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
QBEC5345	QBEC5345	Radiant Intensity = 26.55mW/sr typ. @ 50mA	-

Revision History:

Description:	Revision #	Revision Date
New Release of QBEC5345	V1.0	6/8/2011