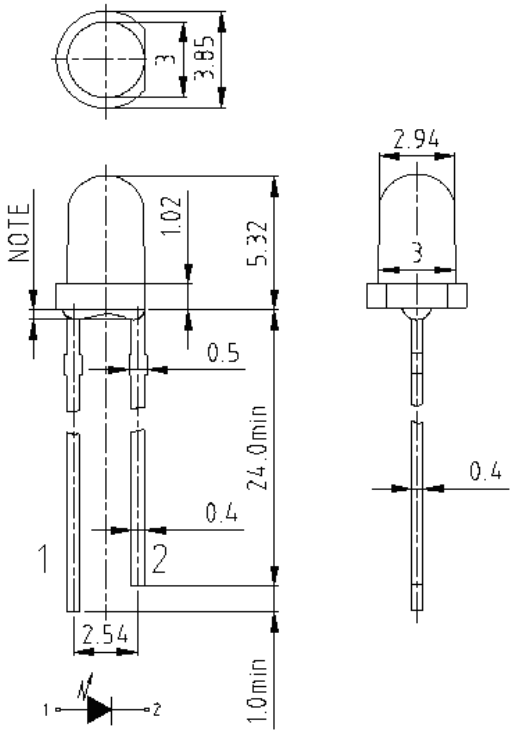
Feature:
- Water Clear transparent lens
- Package in bulk pack (Available in tape/reel)
- High radiant intensity
- 3mm round type TH lamp
- 2.54mm Lead spacing
- Peak wavelength λP = 850nm
- 45 °viewing angle
- AlGaAs technology

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)

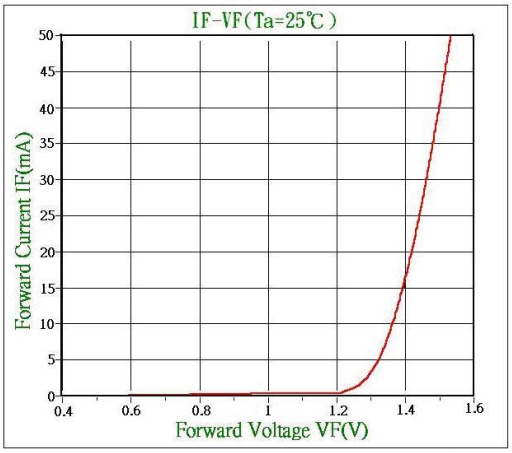
Product	I_F(mA)	V_F(V)		λ_P (nm)			Ie(mW/sr)		Viewing Angle 2Θ1/2	I_R (μA)
		Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Typ.	
QBEC5345	50	15	2.2	820	850	880	9.8	26.55	45	10

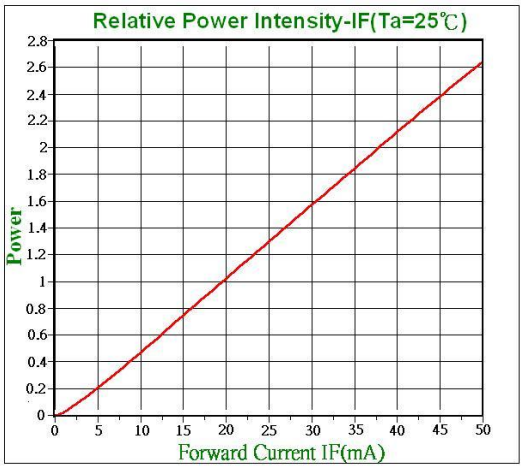
Absolute Maximum Rating

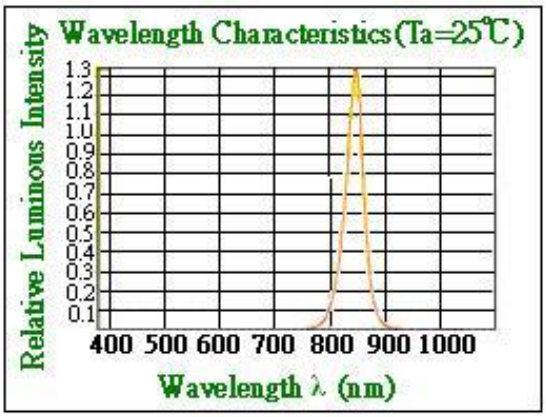
Material	P_d (mW)	I_F (mA)	I_{FP} (mA)*	V_R (V)	T_{OP} (°C)	T_{ST} (°C)	T_{SOL} (°C)**
AlGaAs	150	70	100	5	-40 ~ +80	-40 ~ +100	260

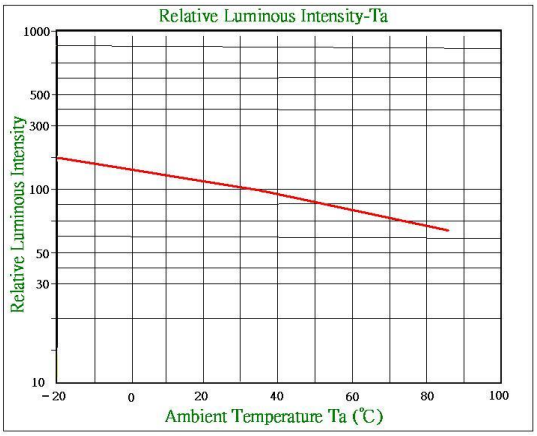
*Duty 1/10 @ 10KHz
** IR Reflow for no more than 10 sec @ 260 °C

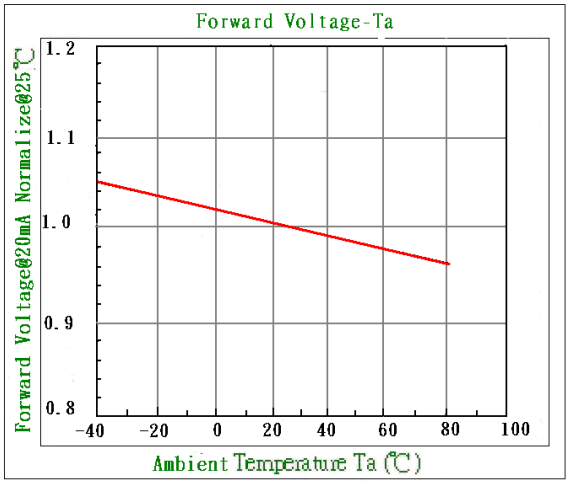
Characteristic Curves:

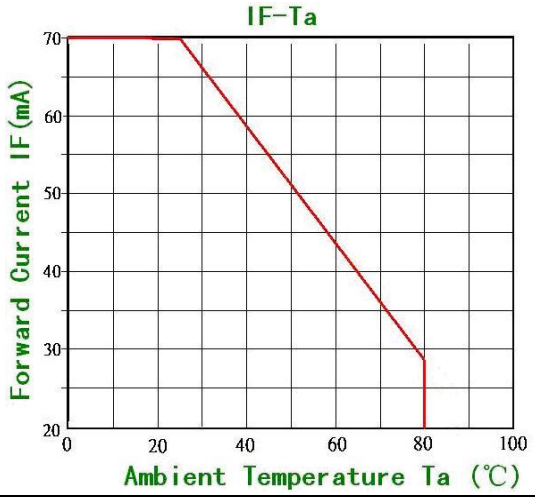


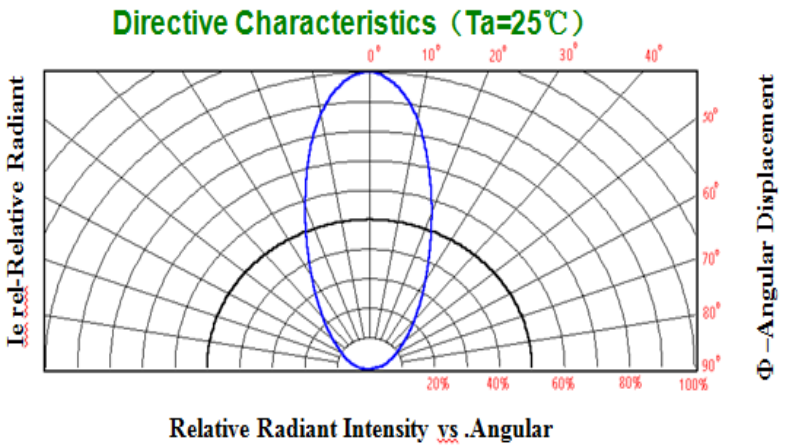












Packing & Labeling: TBD

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