END- LOOK PACKAGE PIN PHOTO DIODE

Features

- 1. Wide receiving angle
- 2. Linear response vs. irradiance
- 3. Fast switching time
- 4. End-looking Package ideal for space limited applications
- 5. Lens Appearance: Black
- 6. This product doesn't contain restriction substance, comply RoHS standard

Description

The BPD-BQDA34 device consists of a PIN silicon photodiode molded in a black epoxy package which allows spectral response from visible to infrared light wavelengths. The wide receiving angle provides relatively even reception over a large area. The end-looking package is designed for easy PC board mounting. This photodiode is mechanically and spectrally matched to BRIGHT's GaAs and GaAIAs series of infrared emitting diodes.

• Absolute Maximum Ratings(Ta=25°C)



1.All dimensions are in millimeters (inches).

2.Tolerance is ±0.25mm (0.01") unless otherwise specified.

3.Lead spacing is measured where the leads emerge from the package

4. Specifications are subject to change without notice

Parameter	Maximum Rating	Unit	
Power Dissipation	100	mW	
Reverse Breakdown Voltage	60V		
Operating Temperature	-40°C~+85°C		
Storage Temperature Range	-45℃~+85℃		

• Electrical Characteristics (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Reverse Light Current	١ _L	-	80		uA	V _R =5V.Ee=1mW/cm ²
Reverse Dark Current	I _D	-	-	100	nA	V _R =10V.Ee=0 mW/cm ²
Reverse Break down Voltage	V _(BR)	35	-	-	-	I _R =100μΑ
Forward Voltage	V _F	0.5	-	1.3	V	I _F =1mA
Total Capacitance	CT	-	9	-	PF	V _R =5V.Ee=0,f=1.0MHZ
Rise Time/ Fall Time	tr/tf	-	50	-	ns	V_R =20V, λ =940nm.RL=50 Ω

Typical Optical-Electrical Characteristic Curves









Coupling Characteristics

Distance Between Lens Tips-inches















Dip Soldering



- 1. Please avoid any external stress applied to the lead-frames and epoxy while the LEDs are at high temperature, especially during soldering
- 2. DIP soldering and hand soldering should not be done more than one time.
- 3. After soldering, avoid the epoxy lens from mechanical shock or vibration until the LEDs are back to room temperature.
- 4. Avoid rapid cooling during temperature ramp-down process
- 5. Although the soldering condition is recommended above,

soldering at the lowest possible temperature is feasible for the LEDs

- IRON Soldering
 - A: Max: 350℃ Within 3 sec. One time only.
 - B: The products of 3mm without flange, welding condition of flat plate PCB Max: 350° C Within 2 sec. One time only



Photodiode Specification

- •Commodity: Photodiode
- Collector Current Bin Limits (IF=24mA Vce =5V)

BIN CODE	Min.(uA)	Max.(uA)
2	44.3	53.2
3	53.2	64.0
4	64.0	77.0
5	77.0	92.0
6	92.0	110.0

NOTES: Tolerance of measurement of Radiant Intensity

:±15%