Specification for Approval

DEVICE NUMBER: BPD-BQDA34

SAMPLES ATTACHED AREA

PAGE DATE	1	2	3	4	5			CONTENTS
2018/9/10	1.0	1.0	1.0	1.0	1.0			Initial Released
2019/5/31	1.0	1.0	1.0	1.0	1.1			Modification Photodiode Specification
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FOR CUSTOMER'S APPROVAL STAMP OR SIGNATURE

APPROVED	PURCHASE	MANUFACTURE	QUALITY	ENGINEERING

ISSUED	APPROVED	PREPARED		
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BPD-BQDA34

END- LOOK PACKAGE PIN PHOTO DIODE

Features

- 1. Wide receiving angle
- 2. Linear response vs. irradiance
- 3. Fast switching time
- End-looking Package ideal for space limited applications
- 5. Lens Appearance: Black
- 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 GaAlAs series of infrared emitting diodes.

Package Dimensions: 5.7(.224) Anode 5.0(.197) 8.6(.339) 1.5(.059) MAX. 23.4(.921) MIN. 0.5(.020) SQ.TYP. 1.00(.039) MIN. 2.54(.100) NOM. NOTES:

- 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

Absolute Maximum Ratings(Ta=25°C)

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

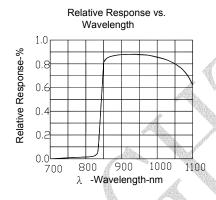


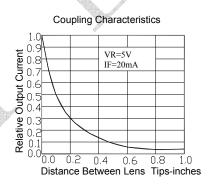
BPD-BQDA34

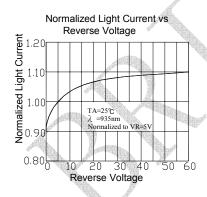
● **Electrical Characteristics** (TA=25°C unless otherwise noted)

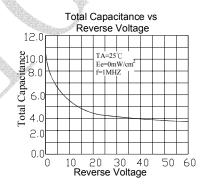
PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Reverse Light Current	IL	-	80		uА	V _R =5V.Ee=1mW/cm ²
Reverse Dark Current	I _D	-	-	100	nA	V _R =10V.Ee=0 mW/cm ²
Reverse Break down Voltage	$V_{(BR)}$	35	-	-	-	I _R =100μA
Forward Voltage	V _F	0.5	-	1.3	V	I _F =1mA
Total Capacitance	Ст	-	9	-	PF	V _R =5V.Ee=0,f=1.0MHZ
Rise Time/ Fall Time	tr/tf	-	50	-	ns 🔏	V_R =20V,λ=940nm.RL=50Ω
Receiving Wavelength	λр	820	-	1100	nm	

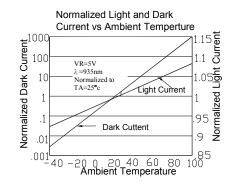
Typical Optical-Electrical Characteristic Curves

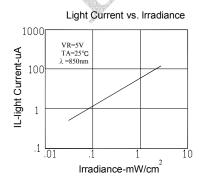


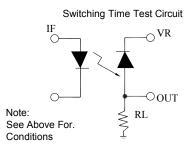


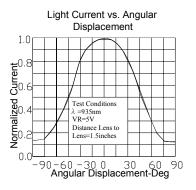








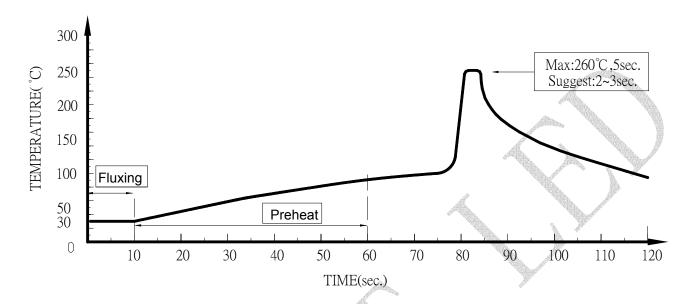






BPD-BQDA34

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°C Within 3 sec. One time only.

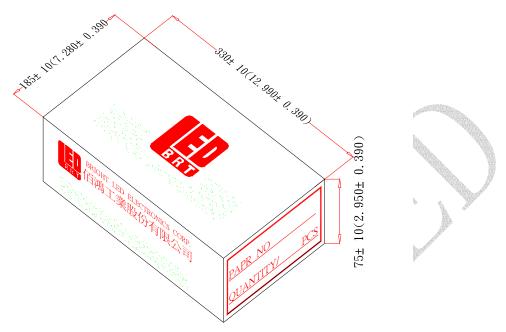
B: The products of 3mm without flange, welding condition of flat plate PCB Max: 3.0(.118)

350°C Within 2 sec. One time only

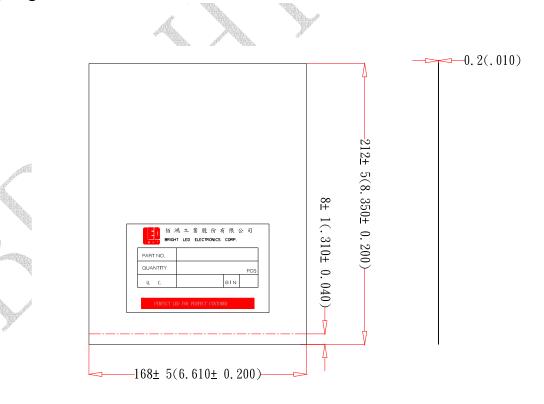


BPD-BQDA34

Tapping and packaging specifications(Units: mm)



• Packaging Bag Dimensions



Notes:

- 1 . 500pcs per bag, 5Kpcs per box.
- 2 · All dimensions are in millimeters(inches).
- 3 · Specifications are subject to change without notice.



BPD-BQDA34

Photodiode Specification

•Commodity: Photodiode

• Collector Current Bin Limits (IF=24mA Vce =5V)

BIN CODE	Min.(uA)	Max.(uA)
3	30.0	45.0
4-A	45.0	60.0
4-B	60.0	75.0
5	75.0	92.0
6	92.0	110.0

NOTES: Tolerance of measurement of Radiant Intensity

:±15%