

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

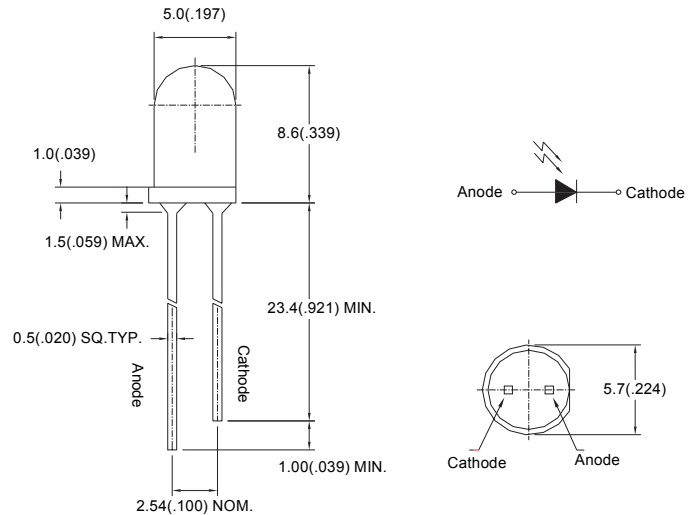
● Description

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 GaAlAs series of infrared emitting diodes.

● 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°C ~+85°C	
Lead Soldering Temperature	260°C for 5 seconds	

● Package Dimensions:



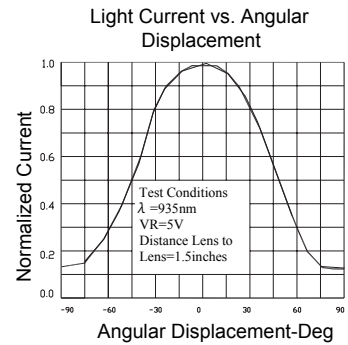
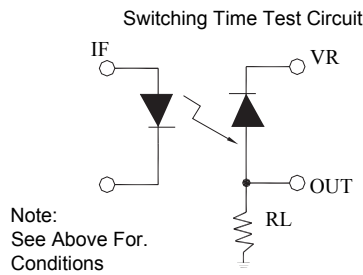
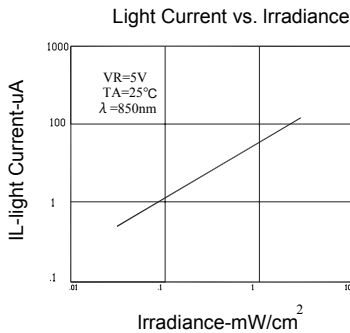
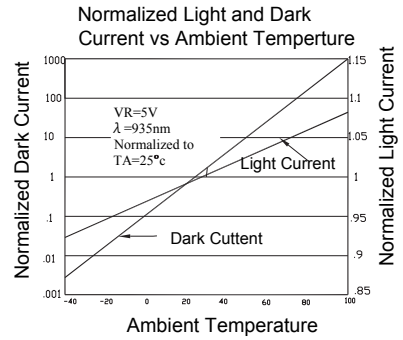
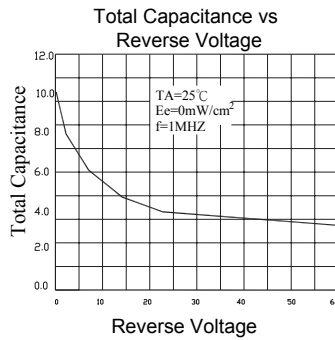
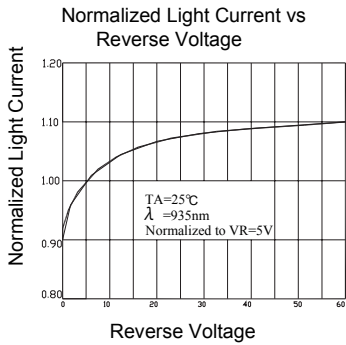
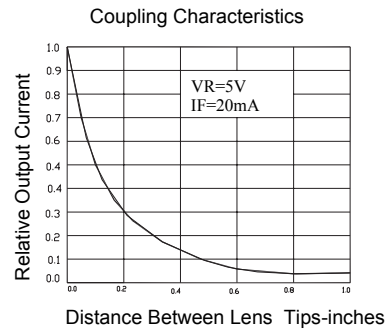
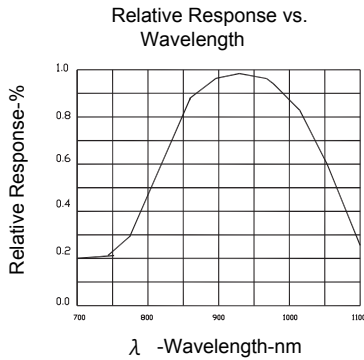
NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm (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

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Reverse Light Current	I_L	-	80		μA	$V_R=5V, E_e=1mW/cm^2$
Reverse Dark Current	I_D	-	-	100	nA	$V_R=10V, E_e=0 mW/cm^2$
Reverse Break down Voltage	$V_{(BR)}$	35	-	-	-	$I_R=100\mu A$
Forward Voltage	V_F	0.5-	-	1.3	V	$I_F=1mA$
Total Capacitance	C_T	-	9	-	PF	$V_R=5V, E_e=0, f=1.0MHz$
Rise Time/ Fall Time	tr/tf	-	50	-	ns	$V_R=20V, \lambda=940nm, RL=50\Omega$

● **Typical Optical-Electrical Characteristic Curves**



Phototransistor Specification

- Commodity: Phototransistor
- Collector Current Bin Limits (At 1mW/ cm2)

BIN CODE	Min.(uA)	Max.(uA)
3	53	64
4	64	77
5	77	92
6	92	110
7	110	132

NOTES:Tolerance of measurement of Reverse Light Current :±15%