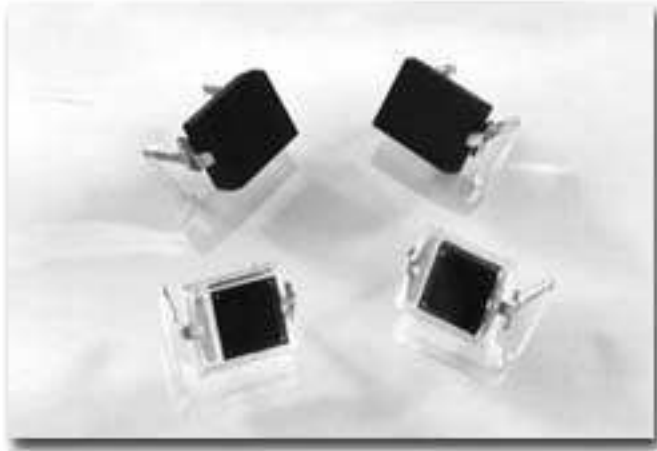


BPW-34

Lead Frame Molded Photodiodes



APPLICATIONS

- IR Sensors
- Bar Code Scanners
- Color Analysis
- Smoke Detectors

FEATURES

- High Reliability
- High Density Package
- Rugged Resin Mold
- Fast and Low Dark Current

BPW-34 series are a family of high quality and reliability plastic encapsulated photodiodes. All three types of devices in this series, exhibit similar electrical characteristics, but vary in optical response. BPW-34B has an excellent response in the blue region of the spectrum, while BPW-34F is an excellent choice for applications requiring blocking the visible light. They are excellent for mounting on PCB and hand held devices in harsh environments.

TYPICAL ELECTRO-OPTICAL SPECIFICATION AT $T_A=23^\circ\text{C}$

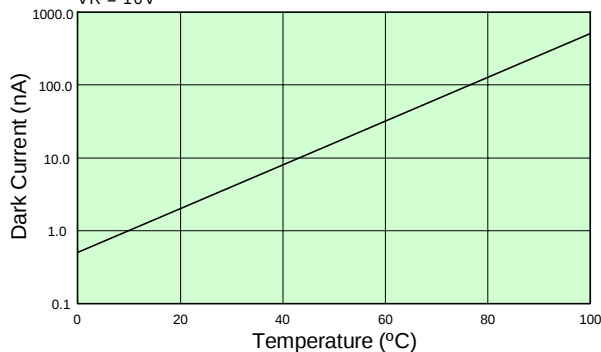
Model No.	Active Area		Spectral Range	Responsivity (A/W)		Capacitance (pF)		Dark Current (nA)		NEP (W/√Hz)	Reverse Voltage (V)	Rise Time (ns)	Temp Range (°C)		Package Style ¶
	Area (mm ²)	Dimension (mm)		950 nm		0 V 1 MHz	-10 V 1 MHz	-10 V		-10V 950 nm		-10 V 830 nm 50 Ω	Operating	Storage	
				min	typ	typ	typ	typ	max	typ		max			
BPW34	7.25	2.69 sq	350-1100	.55	.60	65	12	2	30	4.2 e -14	40	20	-25 ~ +85	-40 ~ +100	19 / Molded
BPW34B				.15*	.20*					1.3 e -13*					
BPW34F			750-1100	.50	.55					4.6 e -14					

* Measured at $\lambda = 410 \text{ nm}$

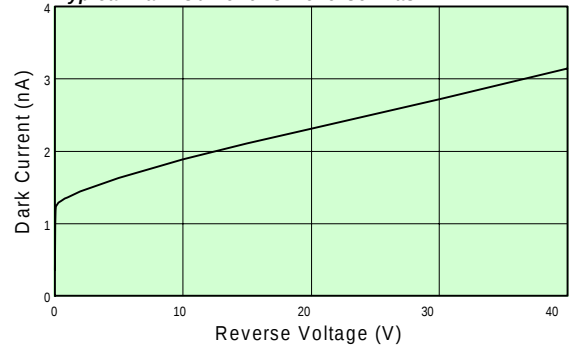
For MECHANICAL DRAWINGS Click Here

Typical Dark Current vs Temperature

VR = 10V

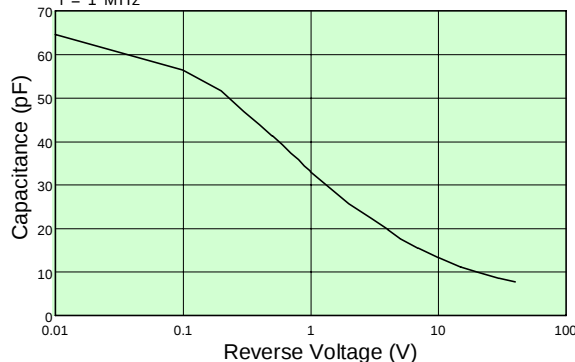


Typical Dark Current vs Reverse Bias



Typical Capacitance vs Reverse Bias

f = 1 MHz



Typical Spectral Response

