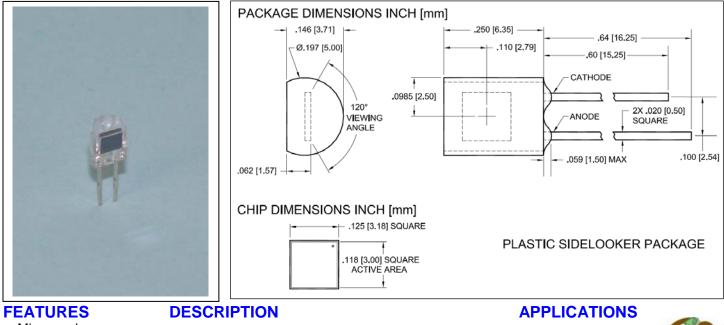


Plastic Photodiode Packages with Leads

PDB-C157



Micro package Photoconductive •

Low cost

High speed

- The PDB-C157 is a blue enhanced PIN silicon photodiode in a photoconductive mode packaged in a water clear plastic sidelooker package.
- Smoke detectors
 - Bar code
- .

TV & VCR remotes

ABSOLUTE MAXIMUM RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		50	V
T _{STG}	Storage Temperature	-40	+100	°C
To	Operating Temperature	-40	+80	°C
Ts	Soldering Temperature*		+260	°C

* 1/16 inch from case for 3 seconds max.

Dimmers

SPECTRAL RESPONSE 0.60 Responsivity (AW) 0.50 0.40 0.30 0.20 0.10 0.00 600 650 770 800 800 950 950 950 1100 1100 250 300 350 400 450 500 550

Wavelength (nm)

ELECTRO-OPTICAL CHARACTERISTICS RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
I _{SC}	Short Circuit Current	H = 100 fc, 2850 K	85	120		μΑ
I _D	Dark Current	V _R = 10 V		2	30	nA
R _{SH}	Shunt Resistance	$V_R = 10 \text{ mV}$	100	150		ΜΩ
CJ	Junction Capacitance	$V_{R} = 10 V, f = 1 MHz$		30	50	pF
λ range	Spectral Application Range	Spot Scan	400		1100	nm
V _{BR}	Breakdown Voltage	I = 10 μA	30	75		V
NEP	Noise Equivalent Power	V _R = 10 V @ λ = Peak		4.4x10 ⁻¹⁴		W/ $\sqrt{_{\rm Hz}}$
t _r	Response Time	$RL = 1K\Omega, V_R = 50 V$		50		nS

**Response time of 10% to 90% is specified at 660nm wavelength light.

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.

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