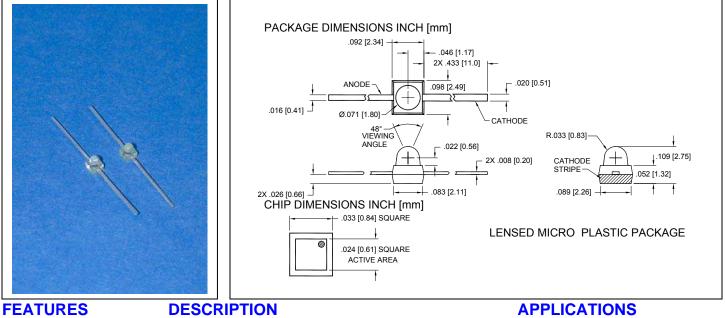


Plastic Photodiode Packages with Leads

PDB-C144



- Micro package
- Photoconductive
- Low cost ٠
- High speed

The PDB-C144 is a blue enhanced PIN silicon photodiode in a photoconductive mode packaged in a water clear lensed micro plastic package.

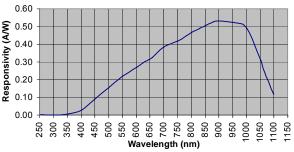
- · Smoke detectors
- Data links
- Scanners

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.

SPECTRAL RESPONSE



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	8	10		μΑ
I _D	Dark Current	V _R = 10 V		2	10	nA
R _{SH}	Shunt Resistance	V _R = 10 mV	100	500		ΜΩ
CJ	Junction Capacitance	$V_{R} = 10 V, f = 1 MHz$		25	30	pF
λ range	Spectral Application Range	Spot Scan	700		1100	nm
V_{BR}	Breakdown Voltage	I = 10 μA	30	100		V
NEP	Noise Equivalent Power	V _R = 10V @ λ = Peak		10x10 ⁻¹⁵		W/ $\sqrt{_{\rm Hz}}$
t _r	Response Time	RL = 1KΩ,V _R = 10 V		6	10	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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