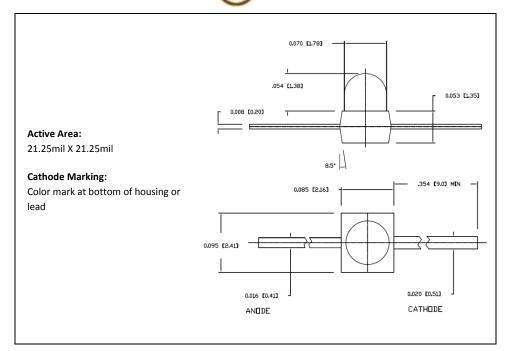
# Photodiode in Plastic Package with Leads









## **FEATURES**

- Small footprint
- Blue enhanced
- Photoconductive mode
- High speed

## **DESCRIPTION**

The PDB-C144 is a blue enhanced PIN silicon photodiode packaged with a lens in a water clear micro plastic package.

## **APPLICATIONS**

- Instrumentation
- Small electronics

#### **ABSOLUTE MAXIMUM RATING**

T<sub>A</sub>= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
$V_R$	Reverse Voltage		50	V
T <sub>Op</sub>	Operating Temperature	-40	+105	°C
T <sub>Stq</sub>	Storage Temperature	-55	+125	°C
T <sub>S</sub>	Soldering Temperature*		+260	°C

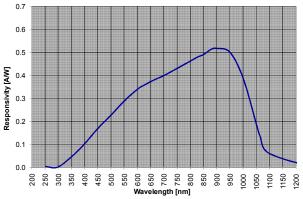
<sup>\* 1/16</sup> inch from case for 3 seconds max.

### **RELIABILITY**

Contact API for recommendations on specific test conditions and procedures.

**ELECTRO-OPTICAL CHARACTERISTICS RATING** 

## TYPICAL SPECTRAL RESPONSE



## T<sub>A</sub> = 23°C, UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$V_{br}$	Breakdown Voltage	I <sub>R</sub> = 10 μA	35	-	-	V
$V_f$	Forward Voltage	I <sub>R</sub> = 10 mA	0.5	-	1.3	V
$I_d$	Dark Current	$V_{R} = 2.5 \text{ V}$	-	-	10.0	nA
IL	Light Current	V <sub>R</sub> = 5.0 V, 2856 K, 1000 lux	-	8.0	-	μΑ
С	Capacitance	$V_R = 3 V, H = 0$	-	3.0	-	pF
R	Responsivity	λ= 900 nm	-	0.5	-	A/W
$\lambda_{\rm range}$	Spectral Range	Spot Scan	400	-	1100	nm

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