

### FEATURES

- Blue enhanced
- Uniform outputs  $\pm 5\%$
- Low crosstalk  $\pm 2\%$

### DESCRIPTION

The **PDB-C232** is a blue enhanced 32 element linear array silicon photodiode packaged in a PCB with a terminal strip and flat glass window.

### APPLICATIONS

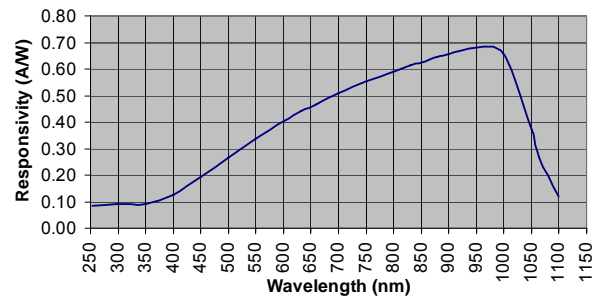
- Spectrometers
- Baggage scanners
- Characters recognition

### 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
$T_O$	Operating Temperature	-40	+75	°C
$T_S$	Soldering Temperature*		+240	°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	TYP	MAX	UNITS
$I_{SC}$	Short Circuit Current	H = 100 fc, 2850 K	7.5	11		$\mu A$
$I_D$	Dark Current	$V_R = 5V$		100	150	nA
$R_{SH}$	Shunt Resistance	$V_R = 10 mV$	100	250		M $\Omega$
$C_J$	Junction Capacitance	$V_R = 10 V, f = 1 MHz$		30		pF
$\lambda_{range}$	Spectral Application Range	Spot Scan	350		1100	nm
$V_{BR}$	Breakdown Voltage	$I = 10 \mu A$	30	75		V
NEP	Noise Equivalent Power	$V_R = 0V @ \lambda = Peak$		$1 \times 10^{-14}$		W/ $\sqrt{Hz}$
$t_r$	Response Time**	RL = 50 $\Omega, V_R = 0 V$		190		nS
		RL = 50 $\Omega, V_R = 10 V$		13		

\*\*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.