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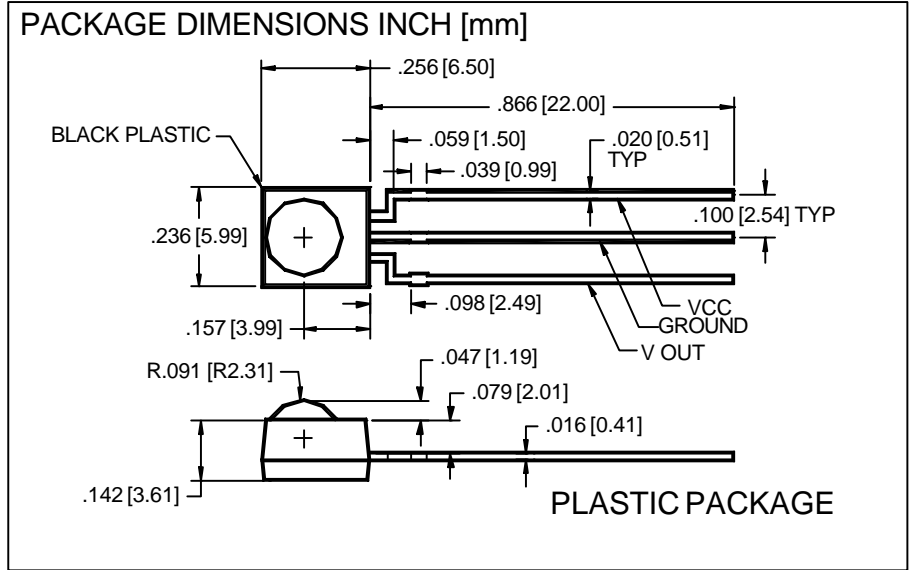
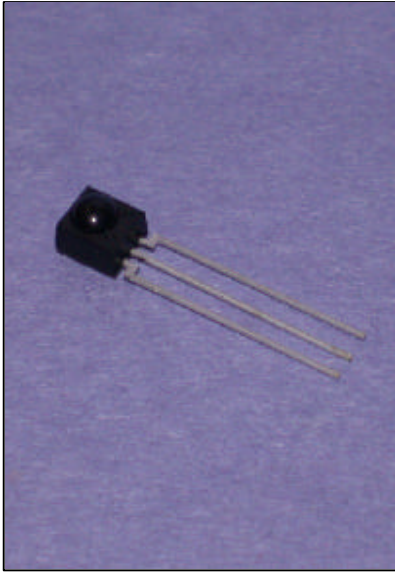
[Advanced Photonix, Inc.](#)  
[PDI-701](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# PHOTONIC DETECTORS INC.

## I.R. Remote control, Opto Receiver I.C. Type PDI-701



### FEATURES

- 38 KHz B.P.F. freq.
- Built-in EMI shield
- Compact- Low cost
- Matched to 880 & 940 nm LEDs

**DESCRIPTION:** The **PDI-701** is a compact, low cost opto I.C. receiver, designed for audio, video, industrial and other NIR remote control applications. B.P.F. center frequency set at 38 KHz, built-in EMI shield with magnification lens. Matched to PDI-E800 & PDI-E900 LEDs (880 & 940 nm).

### APPLICATIONS

- Audio remote control
- Video remote control
- Industrial remote

### ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

SYMBOL	PARAMETER	MIN	MAX	UNITS
V <sub>CC</sub>	Supply Voltage		6.3	V
T <sub>STG</sub>	Storage Temperature	-30	+100	°C
T <sub>O</sub>	Operating Temperature Range	-10	+75	°C
T <sub>S</sub>	Soldering Temperature*		+260	°C

\*3 mm from case for 5 secs max

### ELECTRO-OPTICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
V <sub>CC</sub>	Supply Voltage		4.5	5.0	5.5	V
I <sub>CC</sub>	Current Consumption	No Signal Input		1.5	2.0	mA
L	Detection Length		10	16		M
V <sub>h</sub>	High Level Voltage		4.5			V
V <sub>l</sub>	Low Level Voltage				0.5	V
T <sub>ON</sub>	On-pulse Width		400	600	800	μS
T <sub>OFF</sub>	Off-pulse Width		400	600	800	μS
λ	Sensitivity Peak Wavelength			940		nm
F <sub>O</sub>	Central Frequency			38.0		KHz
Θ80%	Horizon Angle/ Vertical			35/ 30		deg

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

[FORM NO. 100-PDI-701 REV N/C]