PACKAGE DIMENSIONS INCH [mm]

± .050 [1.27]
2X 6.25 [158.7]
2X .250 [6.35]

RED 30 AWG PVC WIRE, ANODE
2X TINNED
BLACK 30 AWG PVC WIRE, CATHODE

.021 [0.53]
.014 [0.36]

CHIP DIMENSIONS INCH [mm]

.700 [17.78]
.035 [0.89]

SOLDERABLE PHOTODIODE

.200 [5.08]
.154 [3.91] ACTIVE AREA

.691 [17.55]
ACTIVE AREA
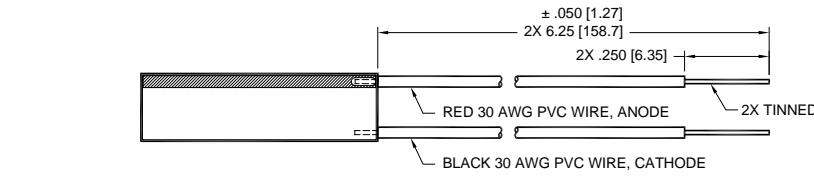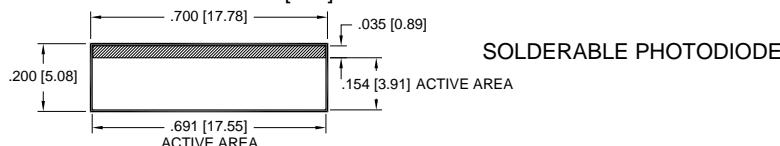
DESCRIPTION

The **PDB-C612-2** is a silicon red enhanced solderable photodiode designed for low capacitance and high speed for photoconductive applications

FEATURES

- Red Enhanced
- Photoconductive
- High Quantum Efficiency

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Optical encoders
- Position Sensors
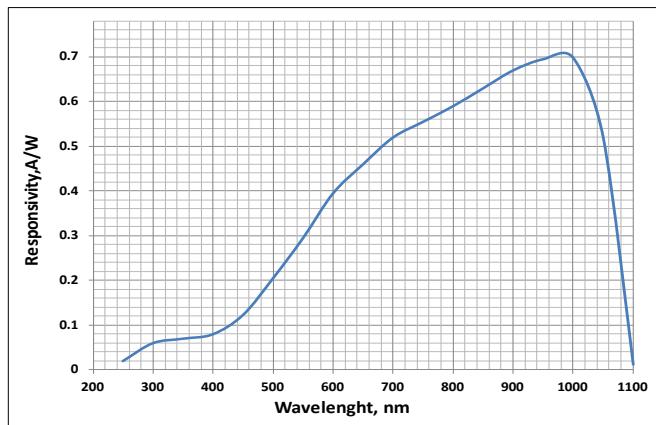- Industrial Controls
- Instrumentation

ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	
Reverse Voltage	-	-	75	V	T_a = 23°C UNLESS OTHERWISE NOTED
Storage Temperature	-40	-	125	°C	-
Operating Temperature	-40	to	+100	°C	-
Soldering Temperature*	-	-	+260	°C	-

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

REV 01-04-16
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WWW.LUNAINC.COM

Precision – Control – Results

OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Short Circuit Current	H= 100 fc, 2850 K	500	680	-	µA
Dark Current	V_R = 5V	-	1	50	nA
Shunt Resistance	V_R = 10 mV	5	100	-	MΩ
Junction Capacitance	V_R =5V; f = 1 MHz	-	300	-	pF
Spectral Application Range	Spot Scan	350	-	1100	Nm
Breakdown Voltage	I=10 µA	10	50	-	V
Noise Equivalent Power	V_R =0V @λ= Peak	-	2×10^{-14}	-5×10^{-13}	$WHz^{1/2}$
Response Time	RL = 1KΩ,V_R = 5 V	-	45	-	nS

TYPICAL PERFORMANCE

SPECTRAL RESPONSE

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