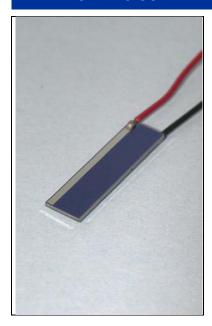
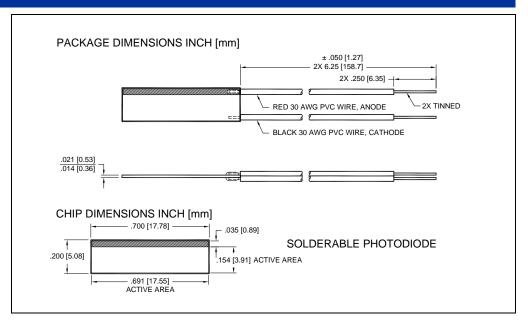


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Precision – Control – Results





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.



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OPTO-ELECTRICAL PARAMETERS

 $T_a = 23$ °C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Short Circuit Current	H= 100 fc, 2850 K	500	680	-	μΑ
Dark Current	$V_R = 5V$	-	1	50	nA
Shunt Resistance	V _R = 10 mV	5	100	-	МΩ
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	-	2x10 ⁻¹⁴	-5x10 ⁻¹³	WHz ^{1/2}
Response Time	RL = $1K\Omega$, V_R = $5V$	-	45	-	nS

TYPICAL PERFORMANCE

SPECTRAL RESPONSE

