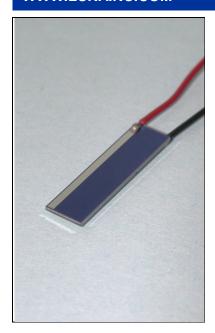
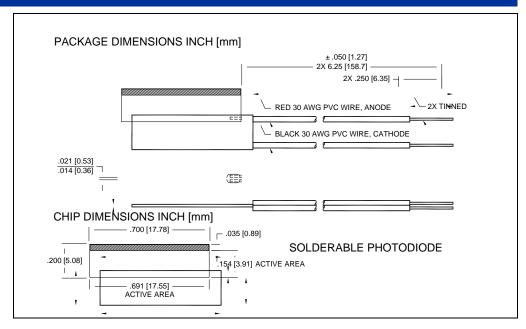


WWW.LUNAINC.COM

Precision – Control – Results





DESCRIPTION

The **PDB-V612-2** is silicon, planar diffused, red enhanced solderable photodiode that comes in PVC wire leads.

FEATURES

- Red Enhanced
- Photovoltaic
- High quantum efficiency

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Optical encoder
- Position sensor
- Industrial controls
- Instrumentation

ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	
Reverse Voltage	-	-	25	V	T _a = 23°C UNLESS OTHERWISE NOTED
Storage Temperature	-40	-	125	°C	-
Operating Temperature	-40	to	+100	°C	-
Soldering Temperature*	-	-	+224	°C	-

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



WWW.LUNAINC.COM

Precision – Control – Results

OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Short Circuit Current	H= 100 fc, 2856 K	720	800	-	μА
Dark Current	$V_R = 5V$	-	40	80	nA
Shunt Resistance	V _R = 10 mV	7	15	-	ΜΩ
Junction Capacitance	V _R =0V; f = 1 MHz	-	9000	-	pF
Spectral Application Range	Spot Scan	350	-	1100	nm
Breakdown Voltage	I=10 μA	5	15	-	V
Noise Equivalent Power	V _R =0V@λ= Peak	-	2.2x10 ⁻¹³	-	W/√ _{Hz}
Response Time**	$RL = 1K\Omega, V_R = 0 V$	-	2800	-	nS

^{**}Response time of 10% to 90% is specified at 660nm wavelength light.

TYPICAL PERFORMANCE

SPECTRAL RESPONSE

