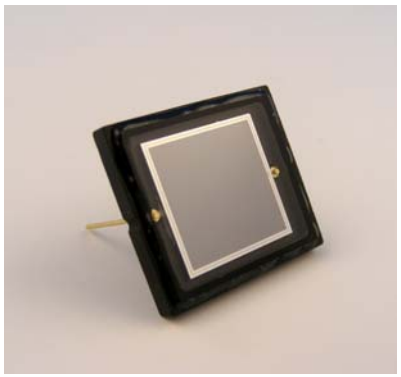
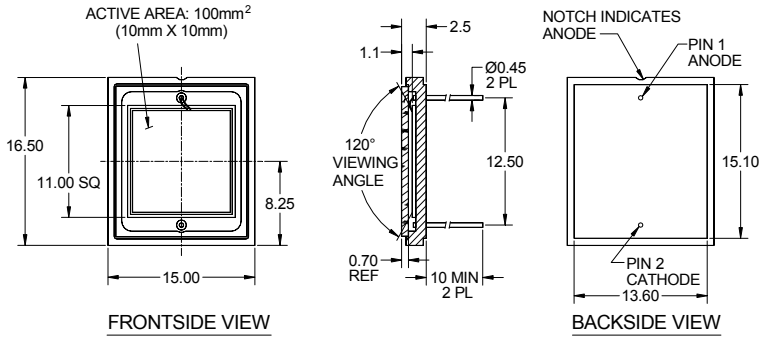
Pacific Silicon Sensor Series 6 Data Sheet
Part Description PS100-6-CER-2 PIN
Order # 03-162





FEATURES
- 10.0 mm square active area
- Low dark current
- Long term stability
- High shunt resistance

DESCRIPTION
100 mm^2 Low Dark Current PIN Photodiode. Packaged in a black ceramic header with a fused silica window.

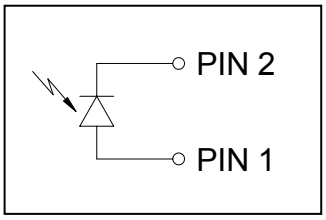
APPLICATIONS
- Precision photometry
- Bar code readers
- Medical equipment
- Pulsed light sensor

RoHS COMPLIANT

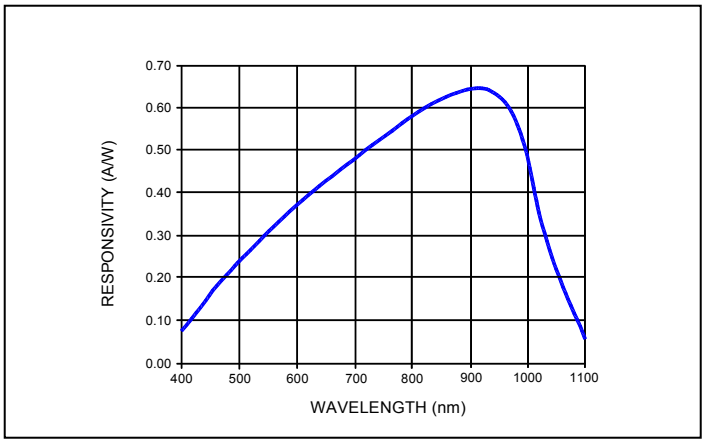
ABSOLUTE MAXIMUM RATING

SYMBOL	PARAMETER	MIN	MAX	UNITS
T_{STG}	Storage Temp	-20	+80	°C
T_{OP}	Operating Temp	-20	+60	°C
$V_{R(OP)}$	Reverse Operating Voltage	-	50	V
$I_{(PEAK)}$	Peak DC Current	-	10	mA

SCHEMATIC



SPECTRAL RESPONSE



ELECTRO-OPTICAL CHARACTERISTICS @ 22° C

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
R_{SH}	Shunt Resistance	V_R = ±10 mV	75	200	---	MΩ
I_D	Dark Current	V_R = 10 V	---	0.5	---	nA
C	Capacitance	V_R = 0 V;	---	900	---	pF
		V_R = 10 V;	---	160	---	
	Responsivity	V_R = 0 V; λ = 633 nm	---	0.40	---	A/W
		V_R = 0 V; λ = 900 nm	---	0.64	---	
NEP	Noise Equivalent Power	V_R = 10 V; λ = 850 nm; R_L = 50 Ω	---	3.0×10^{-14}	---	$W/Hz^{1/2}$
V_{BR}	Breakdown Voltage	I_R = 10 µA	100	---	---	V
t_r	Rise Time	V_R = 10 V; λ = 850 nm; R_L = 50 Ω	---	50	---	ns
		V_R = 80 V; λ = 850 nm; R_L = 50 Ω	---	7	---	

Disclaimer: Due to our policy of continued development, specifications are subject to change without notice.

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