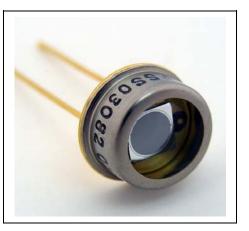
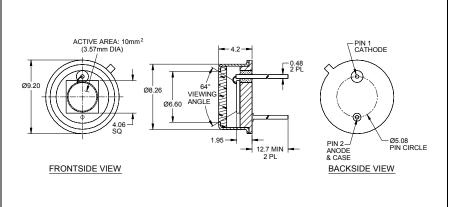


Pacific Silicon Sensor Series 2 Data Sheet

Part Description PC10-2-TO5 Order # 03-082





FEATURES

- Ø 3.57 mm active area
- · Long term stability
- High sensitivity
- · UV/ Blue enhanced

DESCRIPTION

10.0 mm² UV Silicon Photodiode with N on P construction. Hermetically packaged in a TO-5 with a UV transmitting clear glass window cap. If operating at less than 270 nm, order fused silica window version P/N 03-146.

APPLICATIONS

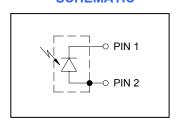
- · UV exposure meters
- Pollution monitoring
- Fluorescent analyzers
- Medical instrumentation



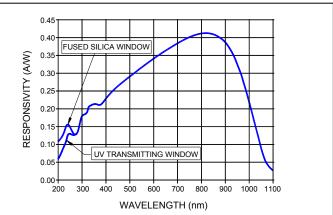
ABSOLUTE MAXIMUM RATING

SYMBOL	PARAMETER	MIN	MAX	UNITS				
T _{STG}	Storage Temp	-55	+125	°C				
T _{OP}	Operating Temp	-40	+100	°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	$V_R = \pm 10 \text{ mV}$	100	500		MΩ
I _D	Dark Current	V _R = 5 V		1.0		nA
С	Capacitance	$V_R = 0 V$		330		pF
		$V_R = 5 V$		160		
	Responsivity	$V_R = 0 \text{ V}; \lambda = 340 \text{ nm}$		0.17		A/W
		$V_R = 0 \text{ V}; \lambda = 850 \text{ nm}$		0.42		
NEP	Noise Equivalent Power	$V_R = 0 \text{ V}; \lambda = 850 \text{ nm}; R_L = 50 \Omega$		1.6 X 10 ⁻¹⁴		W/Hz ^{1/2}
V_{BR}	Breakdown Voltage	I _R = 10 μA	30	50		V
t _r	Rise Time	$V_R = 5 \text{ V}; \ \lambda = 410 \text{ nm}; \ R_L = 50 \ \Omega$		0.3		μs

These devices are sensitive to electrostatic discharge. Please use ESD precautions when handling.

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

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Authorized Distributor

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First Sensor: PC10-2-TO5