

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

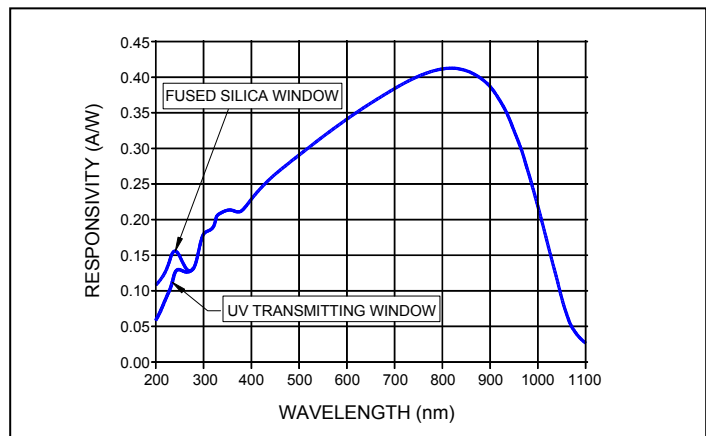
- UV exposure meters
- Pollution monitoring
- Fluorescent analyzers
- Medical instrumentation



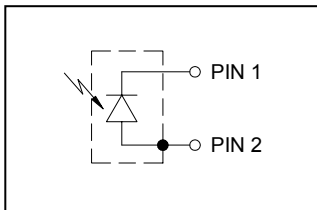
ABSOLUTE MAXIMUM RATING

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

SPECTRAL RESPONSE



SCHEMATIC



ELECTRO-OPTICAL CHARACTERISTICS @ 22° C

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
R _{SH}	Shunt Resistance	V _R = ±10 mV	100	500	---	MΩ
I _D	Dark Current	V _R = 5 V	---	1.0	---	nA
C	Capacitance	V _R = 0 V	---	330	---	pF
		V _R = 5 V	---	160	---	
	Responsivity	V _R = 0 V; λ = 340 nm	---	0.17	---	A/W
		V _R = 0 V; λ = 850 nm	---	0.42	---	
NEP	Noise Equivalent Power	V _R = 0 V; λ = 850 nm; R _L = 50 Ω	---	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 V; λ = 410 nm; R _L = 50 Ω	---	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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