

### FEATURES

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

### DESCRIPTION

10.0 mm<sup>2</sup> 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

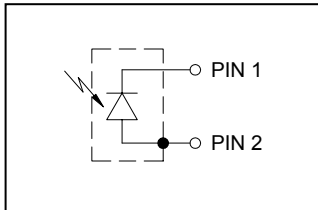
- UV exposure meters
- Pollution monitoring
- Fluorescent analyzers
- Medical instrumentation



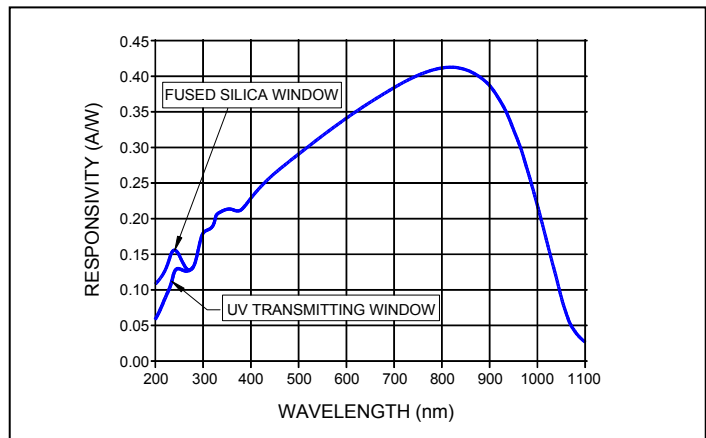
### ABSOLUTE MAXIMUM RATING

SYMBOL	PARAMETER	MIN	MAX	UNITS
T <sub>STG</sub>	Storage Temp	-55	+125	°C
T <sub>OP</sub>	Operating Temp	-40	+100	°C
V <sub>R(OP)</sub>	Reverse Operating Voltage	-	50	V
I <sub>(PEAK)</sub>	Peak DC Current	-	10	mA

### SCHEMATIC



### SPECTRAL RESPONSE



### ELECTRO-OPTICAL CHARACTERISTICS @ 22° C

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
R <sub>SH</sub>	Shunt Resistance	V <sub>R</sub> = ±10 mV	100	500	---	MΩ
I <sub>D</sub>	Dark Current	V <sub>R</sub> = 5 V	---	1.0	---	nA
C	Capacitance	V <sub>R</sub> = 0 V	---	330	---	pF
		V <sub>R</sub> = 5 V	---	160	---	
	Responsivity	V <sub>R</sub> = 0 V; λ = 340 nm	---	0.17	---	A/W
		V <sub>R</sub> = 0 V; λ = 850 nm	---	0.42	---	
NEP	Noise Equivalent Power	V <sub>R</sub> = 0 V; λ = 850 nm; R <sub>L</sub> = 50 Ω	---	1.6 X 10 <sup>-14</sup>	---	W/Hz <sup>1/2</sup>
V <sub>BR</sub>	Breakdown Voltage	I <sub>R</sub> = 10 μA	30	50	---	V
t <sub>r</sub>	Rise Time	V <sub>R</sub> = 5 V; λ = 410 nm; R <sub>L</sub> = 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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