

### FEATURES

- 5.03 mm X 3.89 mm active area
- Low dark current
- Long term stability
- Light detection 675-685 nm

### DESCRIPTION

19.57 mm<sup>2</sup> Low Dark Current Photodiode with P on N construction. Hermetically packaged in an isolated case TO-5 with a clear borosilicate glass window cap and internal 680 nm, 10 nm FWHM, 50% transmission bandpass filter.

### APPLICATIONS

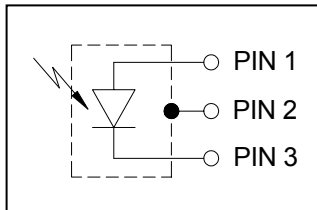
- Precision photometry
- Analytical instruments
- Medical equipment
- Liquid chromatography



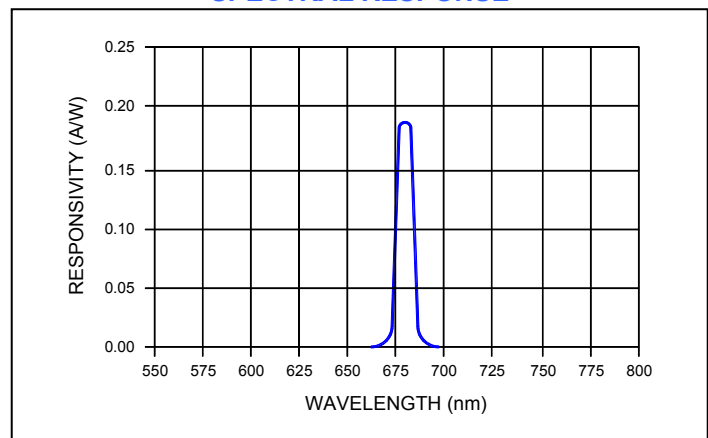
### ABSOLUTE MAXIMUM RATING

SYMBOL	PARAMETER	MIN	MAX	UNITS
T <sub>STG</sub>	Storage Temp	-30	+70	°C
T <sub>OP</sub>	Operating Temp	-25	+70	°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	200	---	MΩ
I <sub>D</sub>	Dark Current	V <sub>R</sub> = 5 V	---	0.35	---	nA
C	Capacitance	V <sub>R</sub> = 0 V;	---	160	---	pF
		V <sub>R</sub> = 5 V;	---	50	---	
	Responsivity	V <sub>R</sub> = 0 V; λ = 680 nm	---	0.19	---	A/W
NEP	Noise Equivalent Power	V <sub>R</sub> = 5 V; λ = 680 nm; R <sub>L</sub> = 50 Ω	---	5.6 X 10 <sup>-14</sup>	---	W/Hz <sup>1/2</sup>
V <sub>BR</sub>	Breakdown Voltage	I <sub>R</sub> = 10 μA	50	---	---	V
t <sub>r</sub>	Rise Time	V <sub>R</sub> = 5 V; λ = 680 nm; R <sub>L</sub> = 50 Ω	---	30	---	ns

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

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