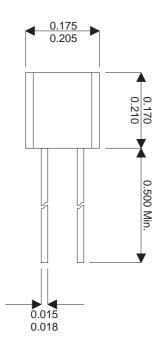
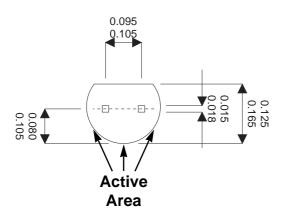


SMP400G-X4

MECHANICAL DATA

Dimensions in inches.





TO-92 Package

P.I.N. PHOTODIODE



FEATURES

- RED PLASTIC ENCAPSULATED PACKAGE
- 0.1" (2.54mm) LEAD SPACING
- BUILT IN FILTER
- SUITABLE FOR REMOTE CONTROL
- LOW DARK CURRENT

DESCRIPTION

The SMP400G-X4 is a silicon PIN photodiode which is incorporated in a red plastic package which simultaneously serves as a filter and is also transparent for the red to infra-red emission. The terminals are solder tabs with 0.1" (2.54mm) spacing. Due to its design the diode can be assembled vertically on PC board.

Arrays can be realised by multiple arrangements. This versatile photo detector can be used as a diode as well as a voltage cell.

The PIN photodiode is outstanding for low junction capacitance, high cut off frequency and short switching time. It is particularly suitable for IR sound transmission and remote control.

ABSOLUTE MAXIMUM RATINGS (T_{case} = 25°C unless otherwise stated)

Operating temperature range	-40°C to +70°C
Storage temperature range	-45°C to +80°C
Temperature coefficient of responsively	0.35% per °C
Temperature coefficient of dark current	x2 per 8°C rise
Reverse Breakdown Voltage	60V Www.DataSheet4U.com

Semelab plc. Telephone (01455) 556565. Telex: 341927. Fax (01455) 552612.

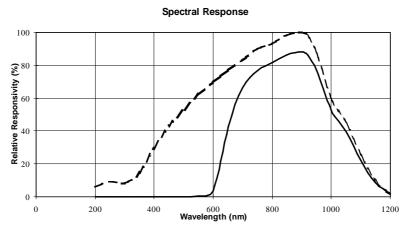
Prelim. 7/97



SMP400G-X4

CHARACTERISTICS (T_{amb}=25°C unless otherwise stated)

Characteristic	Test Cond	Min.	Тур.	Max.	Units	
Responsively	λ at 900nm		0.45	0.55		A/W
Active Area				0.62		mm ²
Dark Current	E = 0 Dark	1V Reverse		0.1	1.0	nA
	E = 0 Dark	10V Reverse		0.5	2.5	
Breakdown Voltage	E = 0 Dark	10μA Reverse	60	80		V
Capacitance	E = 0 Dark	0V Reverse		8	12	pF
Сараспансе	E = 0 Dark	20V Reverse		1.5	2.5	- Pi
Rise Time	30V Reverse		4		ns	
	50Ω					
NEP	900nm			7.2		W/√Hz



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