■ Plastic Encapsulated Series

Lead Frame Molded Photodiodes

OSI Optoelectronics offers a line of high quality and reliability plastic encapsulated photodiodes. These molded devices are available in a variety of shapes and sizes of photodetectors and packages, including industry standard T1 and T13/4, flat and lensed side lookers as well as a surface mount version (SOT- 23). They are excellent for mounting on PCB and hand held devices in harsh environments.

They have an excellent response in the NIR spectrum and are also available with visible blocking compounds, transmitting only in the 700-1100 nm range. They offer fast switching time, low capacitance as well as low dark current. They can be utilized in both photoconductive and photovoltaic modes of operation.

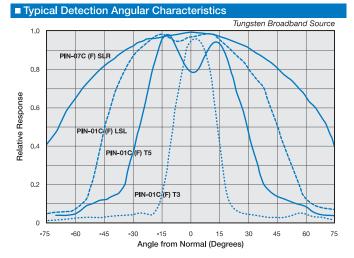


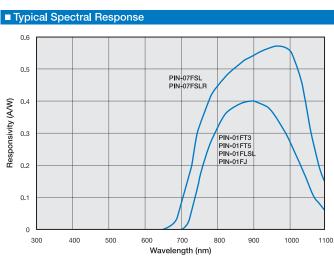
APPLICATIONS

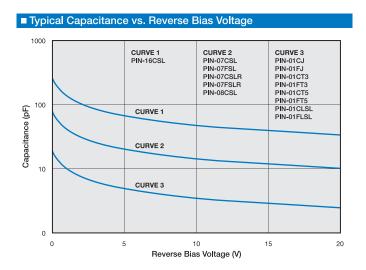
- Bar Code Readers
- Industrial Counters
- Measurement and Control
- IR Remote Control
- Reflective Switches

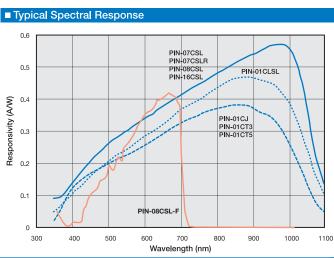
FEATURES

- High Density Package
- Rugged Molded Package
- Low Capacitance
- Low Dark Current
- Lead Frame Standard
- SMT
- Molded Lens Feature
- Side Lookers
- Filter on Chip (700nm Cutoff)







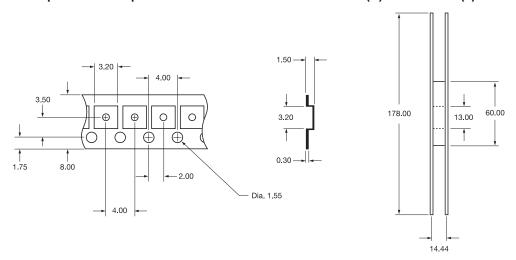


■ Plastic Encapsulated Series

Typical Electro-Optical Specifications at T_A=23°C

Model Number	Active Area			Responsivity I _p =970nm		itance 1 MHz	Dark Current (nA)		Reverse Voltage	Rise Time (ns)	Tem Rar (°	ige	
	Area (mm²)	Dimensions (mm)	Spectral Range (nm)	(A/W)	0 V	-10 V	-10 V		(V)	-10 V peak λ 50 Ω	Operating	Storage	Package Style ¶
Σ	Area	Dime (n		typ.	typ.	typ.	typ.	max.	max.	typ.	Ope	Stc	
PIN-01-CJ	0.2	0.4 Sq	350-1100		21	4	2	30	20	11	0 5 0	-40 ~ 100	59 / Resin Molded
PIN-01-FJ			700-1100	0.40									
PIN-01-CT3	0.2	0.4 Sq	350-1100										58 / Resin Molded
PIN-01-FT3	0.2		700-1100										
PIN-01-CT5	0.2	0.4 Sq	350-1100										
PIN-01-FT5	0.2		700-1100										
PIN-01-CLSL	0.2	0.4 Sq	350-1100	0.45									61 / Resin Molded
PIN-01-FLSL			700-1100	0.40									
PIN-0.81-LLS	0.81	1.02	350-1100	0.55	10	2							62 / Leadless Ceramic
PIN-0.81-CSL													60 / Resin Molded
PIN-4.0-LLS	3.9	2.31x1.68	350-1100		60	10							62 / Leadless Ceramic
PIN-4.0-CSL	3.9												60 / Resin Molded
PIN-07-CSL	8.1	2.84 Sq	350-1100		85	15				50			57 / Resin Molded
PIN-07-FSL			700-1100										
PIN-07-CSLR	8.1	2.84 Sq	350-1100							50			56 / Resin Molded
PIN-07-FSLR			700-1100						_				
PIN-08-CSL-F	8.4	2.90 Sq	350-720	0.43@660nm		25				75			60 / Resin Molded
PIN-8.0-LLS	8.4	2.90 Sq	350-1100	0.55	100	25	10	30					62 / Leadless Ceramic
PIN-8.0-CSL										50			60 / Resin Molded
PIN-16-CSL	16	4.00 Sq			330	55	5			100			

Tape and Reel Specifications for Surface Mount PIN-01(C)J and PIN-01(F)J



[¶] For mechanical drawings please refer to pages 58 thru 69.

* Non-Condensing temperature and Storage Range, Non-Condensing Environment.

The "CSL-F" series ishomogeneous silicon photodiode and optical filter combination device. The filter coating is directly deposited onto the chip during wafer process.