

PLASTIC ENCAPSULATED SERIES

Lead Frame Molded Photodiodes



UDT Sensors, Inc. 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.

APPLICATIONS

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

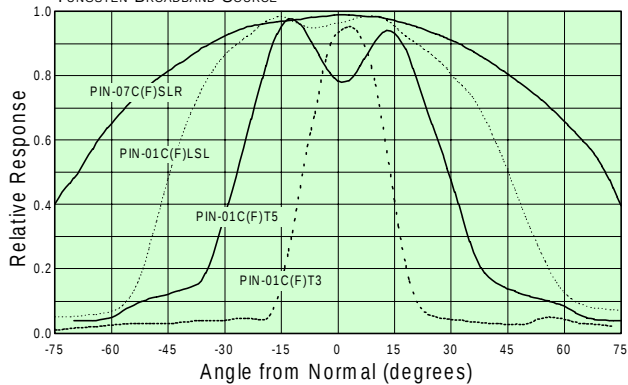
FEATURES

- High Density Package
- Rugged Resin Mold
- Low Capacitance
- Low dark Current
- Lead frame Standard
- SMT
- Lensed Mold
- Side Lookers

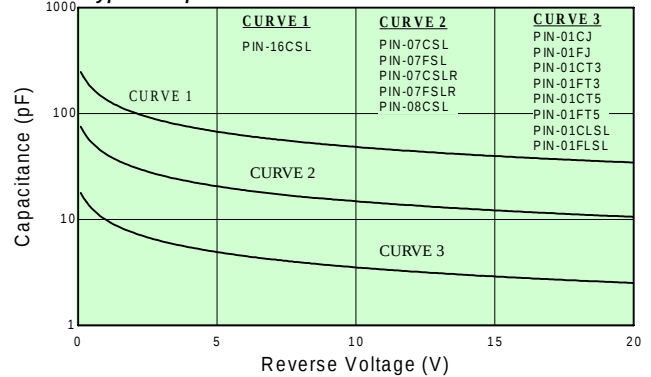
They have an excellent response in the NIR spectrum and are also available with visible blocking compounds, transmitting only in the 700-1100 nm range. They offer fast switching time, low capacitance as well as low dark current. They can be utilized in both photoconductive and photovoltaic modes of operation.

Typical Detection Angular Characteristics

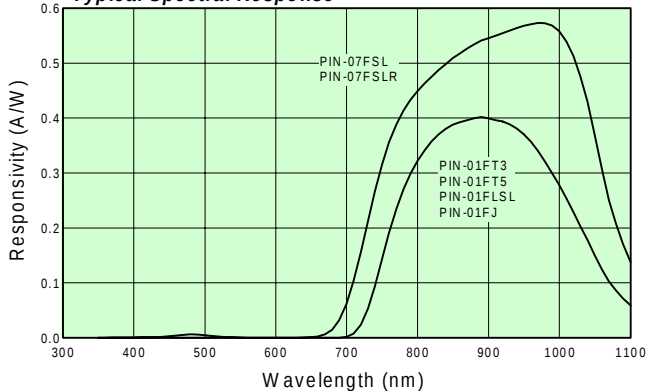
TUNGSTEN BROADBAND SOURCE



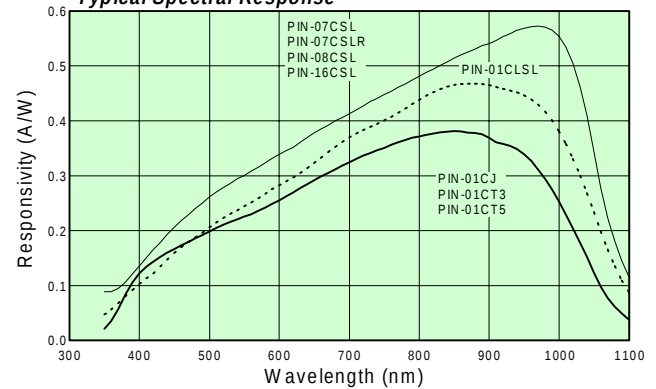
Typical Capacitance vs Reverse Bias



Typical Spectral Response



Typical Spectral Response



Model No.	Active Area		Spectral Range	Responsivity (A/W)	Capacitance (pF) 1 MHz		Dark Current (nA)		Reverse Voltage (V)	Rise Time (ns)	Temp Range (°C)		Package Style †							
	Area (mm ²)	Dimension (mm)		peak λ	0 V	-10 V	-10 V			-10 V peak λ 50 Ω	Operating	Storage								
				typ	typ	typ	typ	max		max				typ						
PIN-01CJ	0.2	0.4 Sq	350-1100	0.40	21	4	2	30	20	11	-25 ~ +85	-40 ~ +100	54 / Resin Mold							
PIN-01FJ			700-1100										53 / Resin Mold							
PIN-01CT3	0.2	0.4 Sq	350-1100																	
PIN-01FT3			700-1100																	
PIN-01CT5	0.2	0.4 Sq	350-1100											0.45	85	15	5	50	50	51 / Resin Mold
PIN-01FT5			700-1100										0.40							
PIN-01CLSL	0.2	0.4 Sq	350-1100	0.55	100	18	5	100	55 / Resin Mold											
PIN-01FLSL			700-1100																	
PIN-07CSL	8.1	2.84 Sq	350-1100							350-1100	330	55	5	100						
PIN-07FSL			700-1100																	
PIN-07CSLR	8.1	2.84 Sq	350-1100																	
PIN-07FSLR			700-1100																	
PIN-08CSL	8.4	2.90 Sq	350-1100																	
PIN-16CSL	16	4.00 Sq																		

For MECHANICAL DRAWINGS Click Here

TAPE AND REEL SPECIFICATIONS FOR SURFACE MOUNT PIN-01C(F)J

