PIN SERIES

Planar-Diffused Silicon Photodiodes

APPLICATIONS:

D SERIES
- OCR Scanners
- Pulse Detectors
- Production Line Sorters
- Opto-Isolators

DP SERIES
- Colorimeters
- Photometers
- Radiometers
- Densitometers
- Intrusion Alarms
- Electro-Optical Blood Analyzers
- Particle Detectors

D SERIES APPLICATIONS.
D series photodiodes are ideal for use in laser rangers, OCR scanners, pulse detectors, production line sorters, and as opto-isolators. Also in video disc recorders, star trackers and spectrometers.

DP SERIES APPLICATIONS.
DP series photodiodes are a good choice for colorimeters, photometers and radiometers, and densitometers. Also for intrusion alarms, electro-optical blood analyzers and particle detectors. They have been used as a replacement for photo-transistors, as opto-couplers, and in the food processing industry.

CUSTOM DEVICES.
A major portion of our capability is devoted to fabricating special devices used in a variety of applications such as OCR, optical alignment, medical instruments, and infrared detection.

For harsh environments, we can supply hermetically-sealed, hi-rel devices.

Multielement PIN arrays, with 4 to 128 elements, have already been built, and are available as standard parts. If one does not fit your needs, we can fabricate one that will.

Our capability extends to making single-element or multielement array hybrids. Hybrids, which combine a photodiode and op-amp in one package, offer unique advantages in certain applications.

In addition to the planar-diffused devices covered in this data sheet, UDT also offers strong capability in Schottky barrier-junction and inversion-layer technology.

Whatever your needs in light detection and measurement, chances are good that UDT can help. Just send us your requirements. We'll give you our recommendations and a quote.

D S Series.
- Voltage-biased (photoconductive)
- Fast response time
- Low capacity
- Low dark current
- Excellent linearity

DP S Series.
- Unbiased (photovoltaic)
- Optimized for op-amp
- Ultra-high impedance
- Ultra-low noise
- Ten decades of output linearity with DC light source

Typical Spectral Response.

PLANAR-DIFFUSED PHOTODIODE.