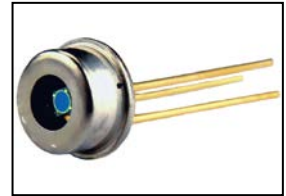




LAPD-1-06-17-TO46



TECHNICAL DATA

InGaAs Large Area Photo-Detector

Features

- Ø1 mm Active Aperture
- TO-46 package
- High Responsivity (0.6 – 1.7 µm)
- High Reliable Planar Device
- Low Leakage Current
- High Shunt Resistance
- Wide Dynamic Range

Applications

- Power Monitoring
- Covert IR Sensing
- Light Detection and Ranging (LIDAR)
- Remote Temperature Sensors
- Spectral Analysis
- Humidity Detection
- Gas Leak Detection
- Optical Powering

Absolute Maximum Ratings

Item	Value		Unit
	Min.	Max.	
Forward Current	-	20	mA
Reverse Current	-	10	mA
Reverse Voltage	-	-20	V
Operation Temperature Range	-20	+85	°C
Storage Temperature Range	-40	+85	°C

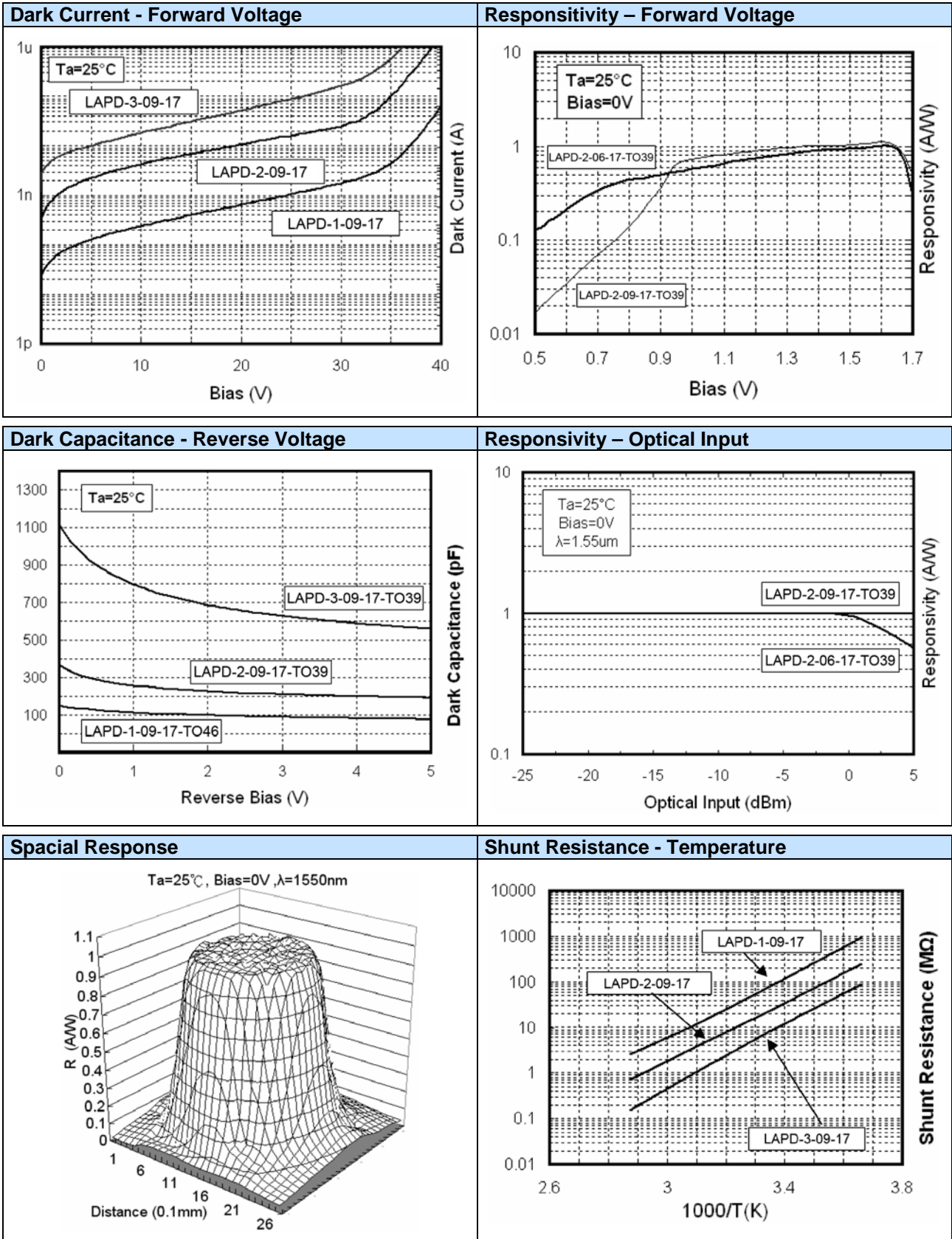
Specifications (25°C)

Item	Value			Unit
	Min.	Typ.	Max.	
Wavelength Range	0.6 - 1.7			µm
Active Aperture	Ø1			mm
Responsivity (0 V)	650 nm	0.20	0.30	A/W
	850 nm	0.40	0.50	
	1310 nm	0.80	0.90	
	1550 nm	0.85	0.95	
Shunt Resistance	25	80	-	MΩ
Capacitance	0 V	-	80	pF
	-5 V	-	40	
Dark Current (-5 V)	-	2	10	nA
Saturation Power (1550 nm, 0 V)	-	-8	-	dBm
D* (1550 nm)	2.5	5	-	10 ¹² Jones
Rise / Fall Time (5V and 0V bias)	4.4	-	8.8	ns





Typical Performance Curves





Package Dimensions

