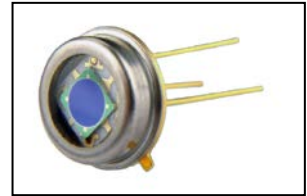




## LAPD-3-09-17-TO39



### TECHNICAL DATA

## InGaAs Large Area Photo-Detector

#### Features

- Ø3 mm Active Aperture
- TO-39 package
- High Responsivity (0.9 – 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

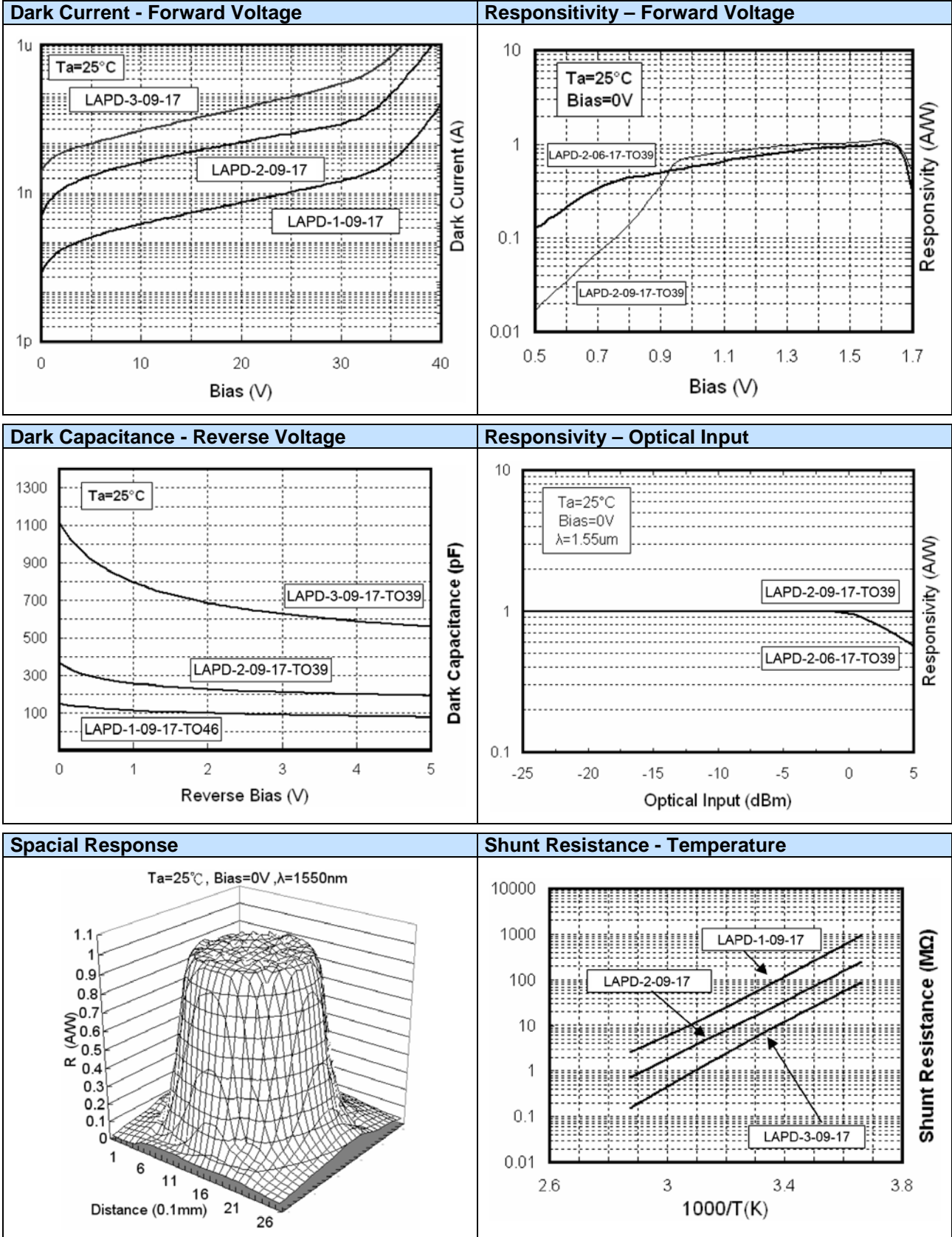
#### Specifications (25°C)

Item	Value			Unit	
	Min.	Typ.	Max.		
Wavelength Range	0.9 - 1.7			µm	
Active Aperture	Ø3			mm	
Responsivity (0 V)	650 nm	0.02	0.05	A/W	
	850 nm	0.10	0.20		
	1310 nm	0.80	0.90		
	1550 nm	0.85	0.95		
Shunt Resistance	2	10	-	MΩ	
Capacitance	0 V	-	1500	2000	pF
	-5 V	-	750	1000	
Dark Current (-5 V)	-	25	100	nA	
Saturation Power (1550 nm, 0 V)	-	-2	-	dBm	
D* (1550 nm)	2.5	5	-	10 <sup>12</sup> Jones	





## Typical Performance Curves





## Package Dimensions

