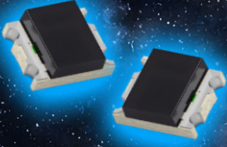
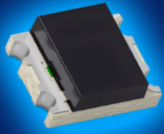


3.0 x 2.5 mm SMD Photodiode

Larger Detection Area. Enhanced IR Sensing





3.0 x 2.5 mm SMD Photodiode

Larger Detection Area. Enhanced IR Sensing

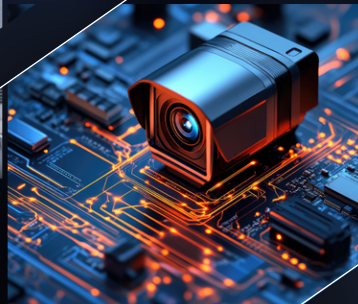
Product Features

- Enhanced Light Capture: Larger active area, higher photocurrent output
- Compact SMD Package: 3.0 x 2.5 x 1.1 mm
- Peak sensitivity at 940 nm with a spectral response range of 670–1070 nm
- Daylight-Blocking Filter: Black diffused lens helps suppress visible ambient light interference
- Broad Emitter Compatibility: matches with 850–940 nm emitters
APD3224SF7C (850 nm), AM2520SF6C09 (860 nm), APD3224SF4C (880 nm), APTD1608F3C (940 nm), APD3224F3C (940 nm)
- Fast Response and Low Noise: 45 ns rise/fall time and reverse dark current ≤ 30 nA at $V_R = 10$ V
- RoHS compliant and Halogen-Free

Applications

- Machine vision & automated optical inspection (AOI) systems
- High-sensitivity infrared sensing systems
- Industrial optoelectronic switches & optical touch sensors
- Photodetector control circuits & pulse monitoring
- Precision proximity & barrier detection

Part Number	Lens Type	Min.	Typ.	Test Condition	Dimensions
AP3025PD2BT	Black Diffused	40 μ A	80 μ A	$V_R = 5$ V $E_e = 0.08$ mW/cm ² $\lambda = 940$ nm	Photodiode Chip 3(0.118) 1.5(0.06) 0.8(0.031) Typ. 1.5(0.06) 2.5(0.098) 2.0(0.079) 1.9(0.075) 0.5(0.02) 1.1(0.043) Max. 2(0.079) 0.6(0.024) Polarity mark Pinout: ②, ④, ①, ③



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