



## SDP8276-001

SDP Series Silicon PhotoDiode, Side-looking Plastic Package

*Representative photograph, actual product appearance may vary.*

*Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.*

### Features

- Side-looking plastic package
- Linear response
- Fast response time
- Internal visible light rejection filter
- 50 ° (nominal) acceptance angle
- Mechanically and spectrally matched to SEP8506 and SEP8706 infrared emitting diodes

### Description

The SDP8276 is a PN silicon photodiode, transfer molded in a side-looking black plastic package, to minimize the effects of visible ambient light. The chip is positioned to accept radiant energy through a lens on the side of the package. The SDP8276 photodiode offers fast response time and a linear output. It is ideal for battery powered systems or anywhere power is at a premium.



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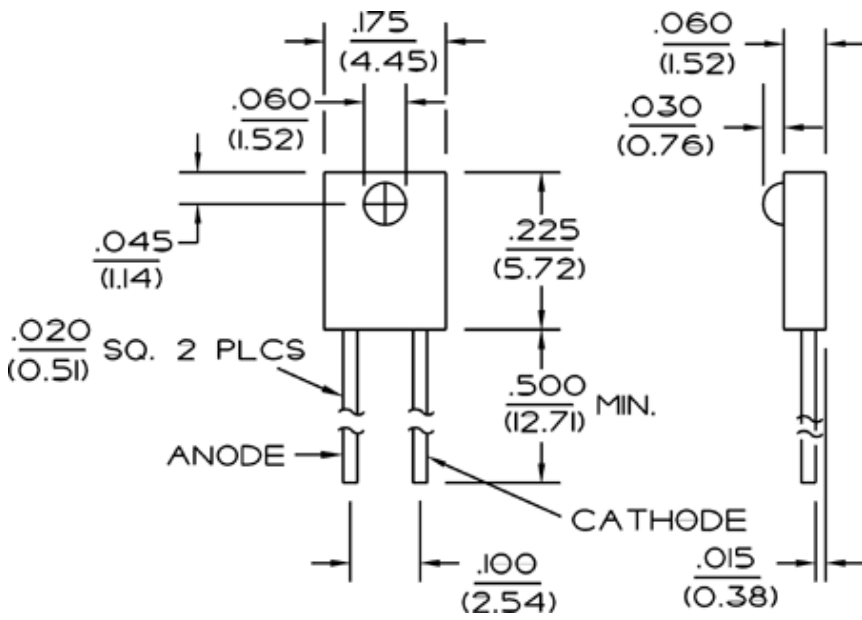
SDP Series Silicon PhotoDiode, Side-looking Plastic Package

Product Specifications	
Product Type	IR Component
Angular Response (Degree)	50
Light Current Minimum	4.0 $\mu$ A
Package Style	Side-Looking
Package Components	Plastic
Package Color	Black
Reverse Breakdown Voltage	50 V
Rise and Fall Time	50 ns
Power Dissipation	100 mW
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Dark Current	50 nA
Cathode Anode Voltage	50 V
Slope Efficiency	0.3 mW/mA
Comment	The radiation source is a tungsten lamp operating at a color temperature of 2870°K.
Availability	Global
Product Name	Photodiode



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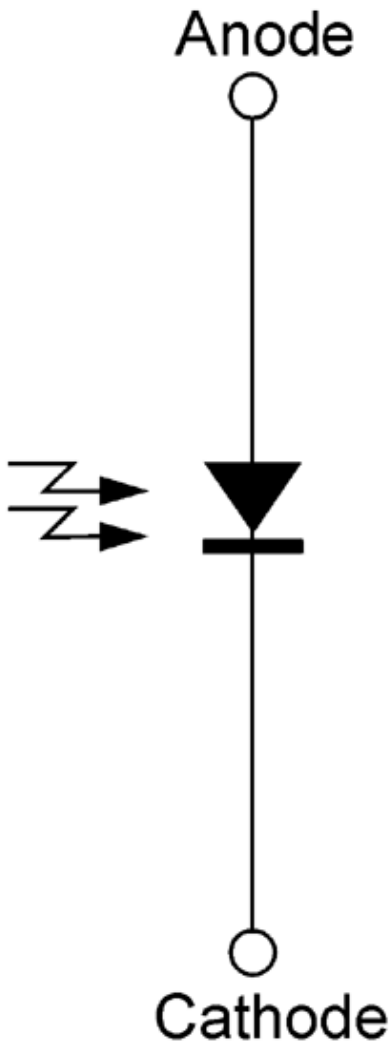
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**Honeywell**

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### **WARNING**

#### **PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

### **WARNING**

#### **MISUSE OF DOCUMENTATION**

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**

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