

## Honeywell Sensing and Control



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## SDP8405-003

SDP Series Silicon PhotoTransistor, T-1 Plastic Package



Representative photograph, actual product appearance may vary.

- [Dimensions](#)
- [Schematic](#)
- [Performance Charts](#)
- [Specifications](#)

### Features

T-1 plastic package  
 20 ° (nominal) acceptance angle  
 Consistent optical properties  
 Wide sensitivity ranges  
 Mechanically and spectrally matched to SEP8505 and SEP8705 infrared emitting diodes

### Description

The SDP8405 is an NPN silicon phototransistor transfer molded in a T-1 clear plastic package. Transfer molding of this device assures superior optical centerline performance compared to other molding processes. Lead lengths are staggered to provide a simple method of polarity identification.

Product Specifications	
Product Type	IR Component
Angular Response (Degree)	20
Light Current Minimum	12.0 mA
Light Current Maximum	24.0 mA
Package Style	T1
Package Components	Plastic
Package Color	Clear
Rise and Fall Time	15 μs
Power Dissipation	70 mW
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Dark Current	100 nA
Collector-Emitter Breakdown Voltage	30 V
Emitter-Collector Breakdown Voltage	5 V
Collector-Emitter Saturation Voltage	0.4 V
Comment	The radiation source is a tungsten lamp operating at a color temperature of 2870°K.
Availability	Global
Product Name	Phototransistor

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.