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SDP8106-001



SDP Series Silicon PhotoDarlington, Side-looking Plastic Package

Actual product appearance may vary.

Features

- Side-looking plastic package
- 50 ° (nominal) acceptance angle
- Mechanically and spectrally matched to SEP8506 and SEP8706 infrared emitting diodes

Description

The SDP8106 is an NPN silicon photodarlington molded in a side-looking black plastic package to minimize effect of visible ambient light. The chip is positioned to accept radiation through a plastic lens from the side of the package.

Supporting Documentation

- [▣ Dimensions](#)
- [▣ Schematic](#)
- [▣ Performance Charts](#)
- [▣ Engineering Drawing](#)

| Product Specifications | |
|--------------------------------------|--|
| Series Name | Photodarlington |
| Product Type | IR Component |
| Angular Response (Degree) | 50 |
| Light Current Minimum | 1.0 mA |
| Package Style | Side-Looking |
| Package Components | Plastic |
| Package Color | Black |
| Rise and Fall Time | 75 μs |
| Power Dissipation | 100 mW |
| Operating Temperature Range | -40 °C to 85 °C [-40 °F to 185 °F] |
| Dark Current | 250 nA |
| Collector-Emitter Breakdown Voltage | 15 V |
| Emitter-Collector Breakdown Voltage | 5 V |
| Collector-Emitter Saturation Voltage | 1.1 V |
| Comment | The radiation source is a IRED with a peak wavelength of 935 nm. |
| Availability | Global |

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