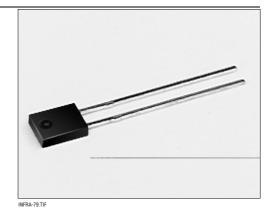
SDP8276 Silicon Photodiode

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



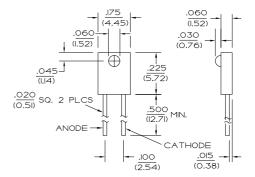
DESCRIPTION

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.



Tolerance

3 plc decimals ±0.005(0.12) 2 plc decimals ±0.020(0.51)



DIM_074.cdr

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SDP8276

Silicon Photodiode

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

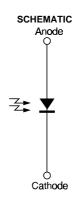
PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Light Current	lL I	4	7		μA	V _R =20 V
						H=1 mW/cm ^{2 (1)}
Dark Current	١ _D			50	nA	H=0, V _R =20 VDC
Reverse Breakdown Voltage	VBR	50			V	I _R =10 μΑ, Η=0
Angular Response (2)	Ø		50		degr.	IF=Constant
Rise And Fall Time	t _r , t _f		50		ns	V _R =20 V, R _L =50 Ω

Notes 1. The radiation source is an IRED with a peak wavelength of 935 nm. 2. Angular response is defined as the total included angle between the half sensitivity points.

(25°C Free-Air Temperature unless otherwise noted) **Operating Temperature Range** -40 to +85°C -40 to +85°C Storage Temperature Range Soldering Temperature (5 sec) 240°C Cathode Anode Voltage 50 V Power Dissipation 100 mW (1) Notes

1. Derate linearly from 25°C free-air temperature at the rate of 0.78 mW/°C.

ABSOLUTE MAXIMUM RATINGS

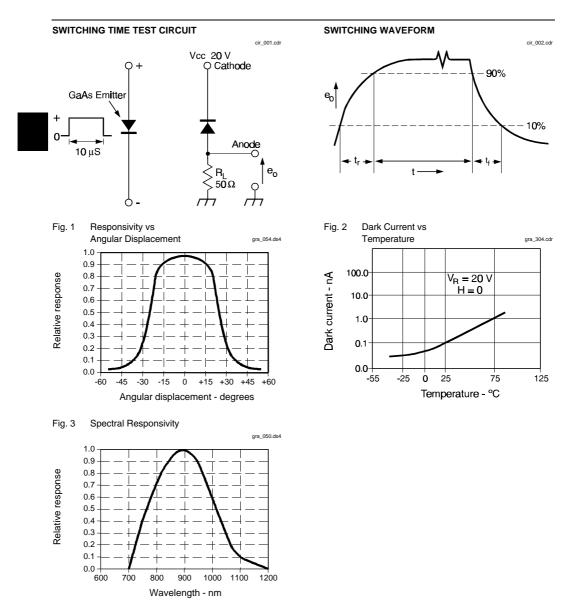


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All Performance Curves Show Typical Values



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