

Photodiode array chip FM5040

Description

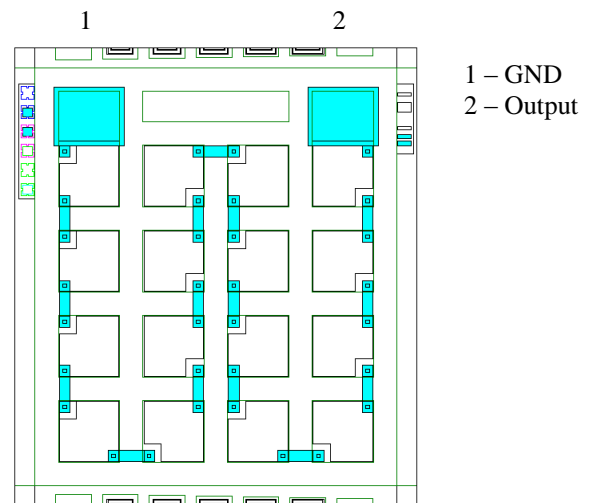
FM5040 chip is fabricated using Silicon Bipolar process technology. This chip is designed to be used as photo receiver for visible and IR lights. The spectral response range is 0.85-0.92 nm.

Features

- 16 photodiodes
- Without discharge circuit
- Contact pad`s material - Aluminium
- Chip size 0.9x1.02 mm
- Chip thickness 0.32±0.02 mm

Absolute maximum ratings

Storage temperature	-65°C to150°C
Operating junction temperature	-55°C to125°C



Electrical characteristics (T= 25°C)

Parameter	Symbol	Unit	Min.	Typ.	Max.	Conditions
Open Circuit Voltage	V _{OC}	V	7.0	8.5		1
Short Circuit Current	I _{SC}	μA	1.0	5.0	-	1
Leakage current	I _{LEAK}	nA			100	2

1 – Parameters are guaranteed when coupled with IR_{LED} = 10 mA with peak wavelength $\lambda = 850 \pm 20$ nm, $\Phi_e = 1000 \mu\text{W}$ at distance 0.2 mm.

2 – No light.

Parameters are guaranteed when coupled with LED $\Phi_e > 1000 \mu\text{W}$ at distance 0.2 mm.