

LIGHT



LT4540 is a dual-element Si photodiode which is moulded into a small plastic leadless optical package. Produced as one chip, the photodiodes offer a very good symmetry, low dark current and high sensitivity.

FEATURES

- · Low dark current
- High sensitivity
- · Small surface mounting type

TYPICAL APPLICATIONS

- · Position sensors
- · Differential light measurement
- · Auto focus

KEY CHARACTERISTICS

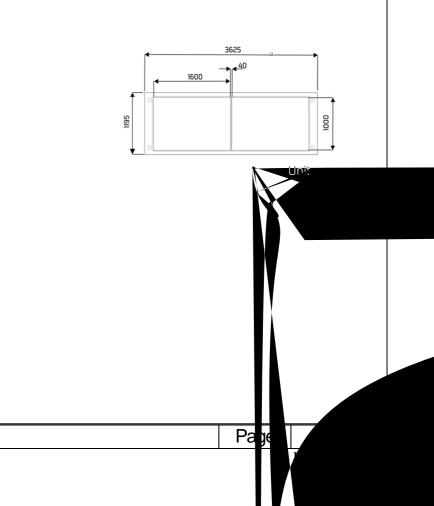
Parameter	Value	Unit
Photodiode	(2)1.6× 1.0	mm
Peak wavelength	850	nm
Dark current@30 ,Vr=2V	1.0	nA

DIMENSIONS

Part No.

LT4540

C







Absolute Maximum Ratings (Ta=25)

Parameter	Symbol	Min.	Max.	Unit
Soldering temperature	T_{sol}		260	
Storage Temperature	T _{stg}	-30	90	
Operating Temperature	T _{opr}	-20	80	

Electro-Optical Characteristics (Ta=25)

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
A _{pd}	Active area	A1, A2 width height		1.60 1.00		mm
λ	Spectral response range		400		1100	nm
λ_{peak}	Peak sensitivity wavelength			850		nm
I _{sc}	Short circuit current	EV=1000 Lx *1		17		uA
S _{peak}	Peak sensitivity			0.55		A/W
I _d	Dark current	C1,C2 Vr=10V			20	nA
C _j	Junction capacitance	C1,C2 Vr=10V		20		pF
θ	Half angle			65		deg.

*1. Under tungsten lamp of color temp.=2856K

Spectral Sensitivity

