



LIGHT ELECTRONICS CO., LTD.



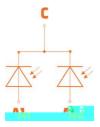
LT4540 is a dual-element Si photodiode which is moulded into a small plastic leadless optical package. Produced as one chip, the photodiodes offer a very good symmetry, low dark current and high sensitivity.

FEATURES

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

TYPICAL APPLICATIONS

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





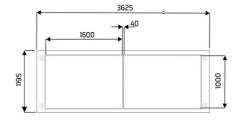




KEY CHARACTERISTICS

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

DIMENSIONS







LIGHT ELECTRONICS CO., LTD.



Absolute Maximum Ratings (Ta=25)

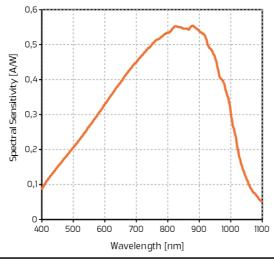
Parameter	Symbol	Min.	Max.	Unit
Soldering temperature	$T_{ m sol}$		260	
Storage Temperature	$\mathrm{T}_{\mathrm{stg}}$	-30	90	
Operating Temperature	$T_{ m opr}$	-20	80	

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
$C_{\rm j}$	Junction capacitance	C1,C2 Vr=10V		20		pF
θ	Half angle			65		deg.

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

Spectral Sensitivity



Part No. LT4540 Page 3 of 3