

PCN: V13-003-32002150-0A

Product Change Notice

Change Type:

Issue Date: 14 Mar 2013

Datasheet Specification Change Only

Parts Affected:

ACPL-H342-000E	ACPL-H342-060E	ACPL-H342-500E	ACPL-H342-560E
ACPL-K342-000E	ACPL-K342-060E	ACPL-K342-500E	ACPL-K342-560E

All associated options and specials will also be affected.

Description and Extent of Change:

Please refer to datasheet, publication number AV02-2526EN for the specification changes below.

Current Specifications

Table 3. Absolute Maximum Ratings

Parameter	Symbol	Max.	Units	Notes
Output IC Power Dissipation	Po	210	mW	3
Total Power Dissipation	Ρ _T	255	mW	4

Notes:

3. Derate linearly above 85°C free-air temperature at a rate of 5.5 mW/°C.

4. Derate linearly above 85°C free-air temperature at a rate of 6.3 mW/°C. The maximum LED junction temperature should not exceed 125°C.

Table 7. Package Characteristics

Parameter	Symbo	Min.	Тур.	Max.	Units	Test Conditions	Note
LED-to-Ambient Thermal	R ₁₁	311			°C/W	Thermal Model in	
Resistance						Application	
LED-to-Detector Thermal	R ₁₂ , R ₂₁	111				Notes Below	
Resistance							
Detector-to-Ambient Thermal	R ₂₂	168					
Resistance							

New Specifications

Table 3. Absolute Maximum Ratings

Parameter	Symbol	Max.	Units	Notes
Output IC Power Dissipation	Po	500	mW	3
Total Power Dissipation	Ρ _T	550	mW	4
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Notes:

3. Derate linearly above 85°C free-air temperature at a rate of **12.5** mW/°C.

4. Derate linearly above 85°C free-air temperature at a rate of 13.75 mW/°C. The maximum LED junction temperature should not exceed 125°C.

Table 7. Package Characteristics

Parameter	Symbo I	Min.	Тур.	Max.	Units	Test Conditions	Note
LED-to-Ambient Thermal	R ₁₁		145		°C/W	Thermal Model in	16
Resistance						Application	
LED-to-Detector Thermal	R ₁₂ , R ₂₁		25, 38			Notes Below	
Resistance							
Detector-to-Ambient Thermal	R ₂₂		46				
Resistance							

Notes:

16. The device was mounted on a high conductivity test board as per JEDEC 51-7.

Reasons for Change:

The power dissipation limits and thermal resistances are adjusted to reflect the device's package true performance.

Effect of Change on Fit, Form, Function, Quality, or Reliability:

All other remaining electrical specifications in datasheet and physical characteristics have not been changed. No changes have been made to the product design and manufacturing process. Appropriate electrical characterization has been performed on representative products to ensure normal parametric distribution, consistent electrical performance. No change is required in customer's existing application with datasheet specifications change.

Effective Date of Change:

Datasheet changes take effect from 14 Mar 2013. Datasheet releases on Avago's website on 14 Mar 2013.

Qualification Data:

Data has been collected and verified.

These changes have been reviewed and approved by Avago Technologies engineers and managers per Avago Technologies procedure: Change Control and Customer Notification, A-5962-6052-80.

Please contact your Avago Technologies field sales engineer or Contact Center (<u>http://www.avagotech.com/contact/</u>) for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.