PCN: V12-008-32002150-0A

Product Change Notice

Issue Date: 26 Nov 2012

Change Type:

1. IC change
2. Leadframe change
3. Datasheet specifications change

Parts Affected:

ACPL-331J-000E	ACPL-332J-000E	QCPL-324J-500E
ACPL-331J-000NE	ACPL-332J-000NE	QCPL-324J-500NE
ACPL-331J-500E	ACPL-332J-500E	
ACPL-331J-500NE	ACPL-332J-500NE	

All associated options and specials will also be affected.

Description and Extent of Change:

1. IC change to increase the absolute maximum ratings of output supply voltage.

Total Output Supply Voltage (abs max)	**Symbol**	**Max.**	**Units**
Current Specification	$V_{CC2} - V_{EE}$	33	V
New Specification	$V_{CC2} - V_{EE}$	35	V

Positive Output Supply Voltage (abs max)	**Symbol**	**Max.**	**Units**
Current Specification	$V_{CC2} - V_E$	$33 – (V_E - V_{EE})$	V
New Specification	$V_{CC2} - V_E$	$35 – (V_E - V_{EE})$	V

2. Qualify stamped leadframe.

3. Datasheet specifications change

The maximum of Threshold Input Current Low to High will be changed from 8mA to 6mA.

Threshold Input Current Low to High	**Symbol**	**Max.**	**Units**	**Test Conditions**
Current Specification	I_{FLH}	8	mA	I_O = 0 mA, V_O > 5V
New Specification	I_{FLH}	6	mA	I_O = 0 mA, V_O > 5V

The Propagation Delay Difference between Two Parts will be changed from ±350ns to ±150ns.

Propagation Delay Difference between Two Parts	**Symbol**	**Min.**	**Max.**	**Units**	**Test Conditions**
Current Specification	$PDD(t_{PHL} - t_{PLH})$	-350	350	ns	Rg=10Ω, Cg=10nF, f=10kHz, Duty Cycle=50%, I_F = 10 mA, V_{CC2} = 30 V
New Specification	$PDD(t_{PHL} - t_{PLH})$	-150	150	ns	Rg=10Ω, Cg=10nF, f=10kHz, Duty Cycle=50%, I_F = 10 mA, V_{CC2} = 30 V

Reasons for Change:

1. To improve the robustness of the IC.
2. To improve production efficiency
3. To reflect the devices true performance.

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

Appropriate electrical characterization and reliability qualification will be performed on representative products to ensure normal parametric distribution, consistent electrical performance, and reliability.

Effective Date of Change:

IC and leadframe changes will be effective from product date code 1309 (yyww). Datasheet specifications change for I_{FLH} and PDD will take immediate effect.

Qualification Data:

Qualification data is currently being generated for approval. These changes will be reviewed and approved by Avago Technologies engineers and managers per Avago Technologies procedure.

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 (http://www.avagotech.com/contact/) for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.