EVERLIGHT	**EVERLIGHT Electronics Co., Ltd.** Attn: No.6-8, Zhonghua Road, Shulin Dist., New Taipei City,23860, Taiwan

☒ PRODUCT/PROCESS CHANGE NOTIFICATION
☐ PRODUCT TERMINATION NOTIFICATION

PCN tracking number: PCN20251203-02 - CN25110005 **DATE:** 05/11/2025

Contact: **Title:** **E-mail:**	**Phone:** **Fax:**

Product influenced: ☒ Major change ☐ Minor change

Product Identification: (e.g., affected supplier part number(s), affected product lines including specific package types, product family):

EL063X seriers products

Customer part number(s) (optional, if not required per agreed to customer criteria):

N/A

Method, if applicable, of identifying changed product:

There are difference in the appearance of IR chip

Reason for change(s):	Detailed description:
☐ Products Package Outline Dimension ☐ Electrical/Optical Specification ☒ Material: Raw Material ☐ Equipment ☐ Data Sheet ☐ Packing: ☐ Other:	To ensure shipments as planned, Everlight introduces new IR chip

Anticipated (positive and negative) impact on form, fit, function, quality, or reliability:

please see the comparison report before and after product changes for details.

Supplier Qualification plan schedule and/or results, where applicable:

N/A

EVERLIGHT	**EVERLIGHT Electronics Co., Ltd.** Attn: No.6-8, Zhonghua Road, Shulin Dist., New Taipei City,23860, Taiwan PHONE: FAX:

Forecasted key milestones	Date
Date, if required, when qualification samples are available	19.11.2025
Date, if required, when final qualification data are available	19.11.2025
Proposed First Ship Date for change	05.05.2026
Last buy date	05.05.2026
Execution date	05.05.2026

Customer acknowledgement of receipt within 30 days of delivery of the PCN:

Customer: **Name/Date:** **Title:**	☐ **Approval for shipments before effective date** **E-mail/Address:** **Phone/Fax:**

Customer Comments:

EVERLIGHT acknowledgement of receipt:

RECORD BY: **DATE:**

The document of individual PCN information will be retained for a minimum of 5 years.

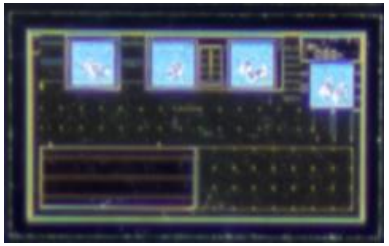
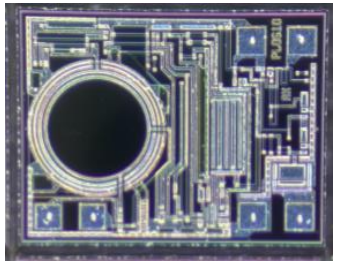
New and original chip comparison instructions

www.everlight.com

Prepare:IRRD2

EVERLIGHT

Chip comparison

	New	Original
Appearance		
Length and width	729 x 450 μm	830 x 1070 μm
Thickness	200 μm	330 μm
PAD Size	80 μm	110 μm
PAD thickness	NA	1.0 μm
Top PAD material	Al	Al
Back PAD material	Si	Si

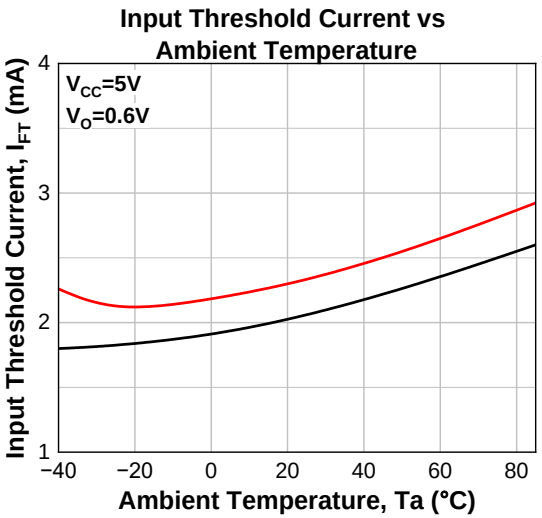
Chip electrical specifications comparison

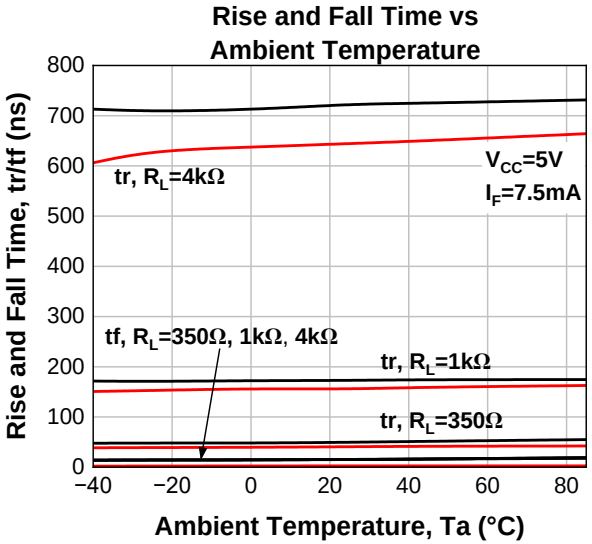
Parameter	Symbol	Unit	Test Condition	M3152			PL0610		
				Min.	Typ.	Max.	Min.	Typ.	Max.
High level output current	I_{OH}	uA	I_F = 0mA,V_{CC}=5V	-	-	1	-	-	-
			I_F = 0mA,V_{CC}=5.5V	-	-	-	-	-	50
Low level output voltage	V_{OL}	V	I_F =7.5mA, I_{OL} =13mA, V_{CC}=5V	-	0.2	0.6	-	-	-
			V_{CC}=5.5V, V_E=2.0V, I_O=13mA	-	-	-	0.2	-	0.6
High-level Supply Current	I_{CCH}	mA	V_{CC}=5V	-	4.2	6	0	-	10
Low Level Supply Current	I_{CCL}	mA	I_F = 7.5mA	-	4.8	6.5	-	-	13
High level enable current	I_{EH}	mA	V_{CC}=5.5V, V_E=2.0V	-	-0.65	-1.6	-	-	-1.6
Low level enable current	I_{EL}	mA	V_{CC}=5.5V, V_E=0.5V	-	-0.9	-1.6	-	-	-1.6

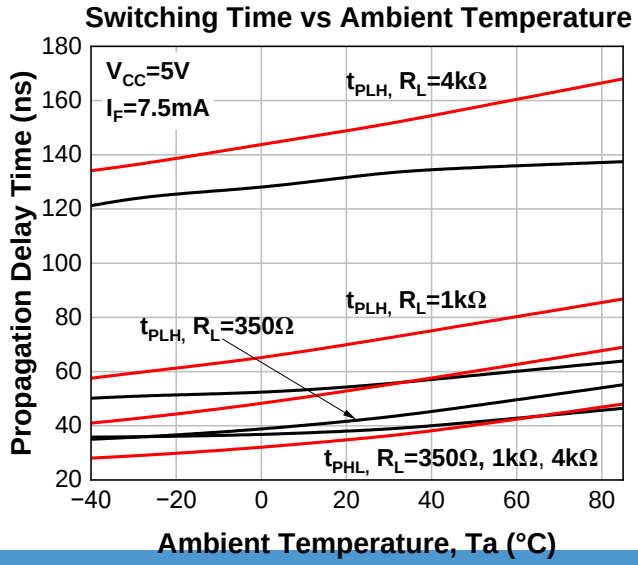
Comparison of electrical properties of finished products

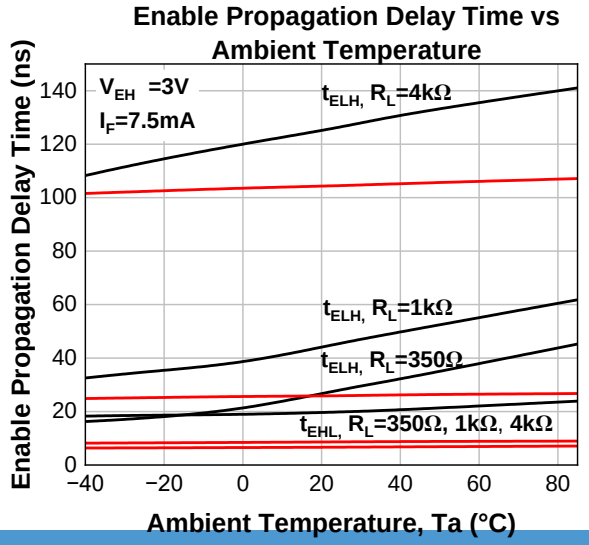
Condition	I_F=0mA V_{CC}=5.5V V_E=0.5V	I_F=10mA V_{CC}=5.5V V_E=2V	I_F=0.25mA V_O=V_{CC}=5.5V V_E=2V	I_F=5mA V_{CC}=5.5V V_E=2V I_{OL}=13mA	V_{CC}=5.5V V_O=0.6V V_E=2V
Symbol	**I_{CCH}(mA)**	**I_{CCL}(mA)**	**I_{OH}(μA)**	**V_{OL}(V)**	**I_{FH}(mA)**
Original	6.75	8.70	2.72	0.30	1.96
	6.75	8.68	4.71	0.29	1.83
	6.69	8.65	2.36	0.30	2.08
	6.69	8.68	1.74	0.29	1.95
	6.77	8.72	4.18	0.30	1.93
	6.67	8.63	2.08	0.28	1.91
	6.46	8.48	0.74	0.28	2.06
	6.64	8.56	2.30	0.28	1.83
	6.57	8.59	0.89	0.28	1.97
	6.62	8.63	1.52	0.28	1.90
New	6.11	5.59	0.03	0.20	2.16
	6.19	5.65	0.03	0.20	2.25
	6.21	5.68	0.03	0.20	2.44
	6.24	5.70	0.02	0.20	2.20
	6.04	5.52	0.03	0.21	2.40
	6.20	5.67	0.02	0.21	2.64
	6.14	5.61	0.02	0.21	2.49
	6.21	5.68	0.02	0.21	2.40
	6.02	5.51	0.02	0.21	2.27
	5.99	5.48	0.02	0.21	2.25

Characteristic curve comparison









Conclusion

- The original chip looks different from the new.
- There is no significant difference between basic electrical properties, finished product electrical properties and characteristic curves.