

		EVERLIGHT Electronics Co., Ltd. Attn: No.6-8, Zhonghua Road, Shulin Dist., New Taipei City, 23860, Taiwan PHONE: 886 2 2685 6688 FAX: 886-2-2685-6880	
PRODUCT/PROCESS CHANGE NOTICE 產品變更通知			
PCN tracking number/文件編號 : PCN20180111-01 Contact / 聯絡人: 郭安庭 E-mail / 郵件地址: antingkuo@everlight.com		DATE / 發行日期: 01/11/2018 Phone / 電話: 886 2 2685 6688 ext: 6428 Fax / 傳真電話: 886-2-2685-6880	
Product influenced 產品變更影響程度	Minor change		
BU: 產品管理單位	IBU		
Category: 文件類型	Create new		
Product Identification: (e.g., affected supplier part number(s), affected product lines including specific package types, product families): 影響項目 (Ex: 供應商品名變更, 影響產品廠別, 封裝型式變更, 產品系列) PD15-22 series, the details can be found in attachment.			
Customer part number(s) (optional, if not required per agreed to customer criteria): 客戶品名 (視客戶需求選擇是否填入客戶端品名) NA			
Method, if applicable, of identifying changed product: 可辨識新舊版產品差異的方式 There is no difference in product.			
Product Attribute Affected / 變更影響面 Data Sheet/規格書變更	Description and Purpose of Change / 變更目的與詳細說明 為了提升規格書的一致性, 將測試條件中的測試光源 (λP) 統一由875nm改成940nm, 此改變不影響光電特性, 詳見附件的測試數據。 For better consistence of specification, EL is going to unify the test light source from 875nm to 940nm. There is no impact to any electro-optical characteristics, and the details can be found in attached measured results.		
Anticipated (positive and negative) impact on form, fit, function, quality or reliability: 變更後產品影響度, 外觀, 尺寸, 功能性, 品質與信賴性 There is no difference in product.			
Supplier Qualification plan schedule and/or results, where applicable: 供應商承認計畫與結果			
Key milestones 重點階段時程	Date (yyyy/mm/dd)		
變更後樣品送樣日: Date when qualification samples are available			
規格書, 信賴性報告提供日: Date when final qualification data are available			
新產品首批出貨日: Proposed First Ship Date for change			

最後下單日 : Last buy date	
執行日 : Execution date	01/19/2018
Customer acknowledgement of receipt within 30 days of delivery of the PCN 客戶承認期為接收PCN文件30天內回覆	
Customer / 客戶名稱 Name / Date 聯絡人/日期 Title/ 職稱	<input type="checkbox"/> Approval for shipments before effective date / 切換 日前, 同意出貨 E-mail/Address / 電子郵件 Phone/Fax / 聯絡電話
Customer Comments / 客戶意見	
EVERLIGHT acknowledgement of receipt (億光收到客戶意見):	
RECORD BY:	DATE:

Appendix of affected items

Reporter : PMC OBU
Jan, 2018

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The change of Datasheet

Before

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Rang Of Spectral Bandwidth	λ	400	---	1100	nm	10% of λ_p
Wavelength Of Peak Sensitivity	λ_p	---	940	---	nm	---
Open-Circuit Voltage	V_{oc}	---	0.41	---	V	$E_e=5mW/cm^2$ $\lambda_p=940nm$
Short-Circuit Current	I_{sc}	4.0	6.5	---	μA	$E_e=1mW/cm^2$ $\lambda_p=875nm$
Reverse Light Current	I_L	4.2	6.5	---	μA	$E_e=1mW/cm^2$ $\lambda_p=875nm$ $V_R=5V$
Dark Reverse Current	I_D	---	---	10	nA	$E_e=0mW/cm^2$ $V_R=10V$
Reverse Breakdown Voltage	B_{VR}	32	170	---	V	$E_e=0mW/cm^2$ $I_R=100\mu A$

PD15-22C/TR8, rev.4



After

Parameter	Symbol	Min.	Typ.*	Max.	Unit	Condition
Rang Of Spectral Bandwidth	λ	400	--	1100	nm	10% of λ_p
Wavelength Of Peak Sensitivity	λ_p	--	940	--	nm	--
Open-Circuit Voltage	V_{oc}	--	0.41	--	V	$E_e=1mW/cm^2$ $\lambda_p=940nm$
Short-Circuit Current	I_{sc}	4.0	--	--	μA	$E_e=1mW/cm^2$ $\lambda_p=940nm$
Reverse Light Current	I_L	4.2	6.5	--	μA	$E_e=1mW/cm^2$ $\lambda_p=940nm$ $V_R=5V$
Dark Reverse Current	I_D	--	--	10	nA	$E_e=0mW/cm^2$ $V_R=10V$
Reverse Breakdown Voltage	B_{VR}	32	170	--	V	$E_e=0mW/cm^2$ $I_R=100\mu A$

Measured result

Comparison of Reverse light current by different light source

P/N	PD15-22C/TR8		PD15-22B/TR8	
Condition	$V_R=5V, E_e=1mW/cm^2$			
λ_P	940nm	875nm	940nm	875nm
No.	Unit: μA			
1	10.46	9.84	10.54	9.43
2	10.49	9.86	10.39	9.45
3	10.39	9.77	10.51	9.36
4	10.40	9.78	10.60	9.58
5	10.70	10.05	10.48	9.48
6	10.37	9.75	10.50	9.42
7	10.60	9.96	10.59	9.39
8	10.78	10.13	10.42	9.33
9	10.64	10.00	10.41	9.38
10	10.59	9.95	10.56	9.34
AVG	10.54	9.91	10.50	9.42
MIN	10.37	9.75	10.39	9.33
MAX	10.78	10.13	10.60	9.58