EVERLIGHT Electronics Co., Ltd.
Attn: No.6-8, Zhonghua Road, Shulin Dist., New Taipei City,23860, Taiwan
PHONE: 886 2 2685 6688 (各廠自行填寫實際電話)
FAX: 886-2-2685-6880 (各廠自行填寫實際傳真)

☐ PRODUCT/PROCESS CHANGE NOTIFICATION
■ PRODUCT TERMINATION NOTIFICATION(※2)

PCN tracking number: IBUPCN-20131225 **DATE:** December/25/2013

Contact: Techin She
Title: PM
E-mail: techinshe@everlight.com
Phone: +886-2-2685-6688. Ext:6245
Fax: +886-2-2685-6699

Product influenced: IR/PT958 series ■**Major change** □**Minor change**

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

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

Method, if applicable, of identifying changed product:
NA

Reason for change(s):
☐ Products Package Outline Dimension
☐ Electrical/Optical Specification
☐ Material
☐ Equipment
☐ Data Sheet
☐ Packing
■ Other

Detailed description:
1. Due to mold of IR/PT958 series is too old to produce, IR/PT958 series will be terminated at Feb/10/2014. We suggest customer to use IR/PT968 instead of IR/PT958. The comparison of spec and dimension is attached in the Appendix.
2. All affected products and part numbers, please refer to the attachment.
3. This PCN is based on the **ECR000037180** which is following Everlight's internal and formal process.

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

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

EVERLIGHT	**EVERLIGHT Electronics Co., Ltd.** Attn: No.6-8, Zhonghua Road, Shulin Dist., New Taipei City,23860, Taiwan PHONE: 886 2 2685 6688 (各廠自行填寫實際電話) FAX: 886-2-2685-6880 (各廠自行填寫實際傳真)

Forecasted key milestones	**Date**
Date, if required, when final qualification data are available.	Available now
Proposed First Ship Date for change.	Available now
Last date, if applicable, of manufacture of the unchanged product.	Jan/20/2014
Last buy date.	Jan/20/2014

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:

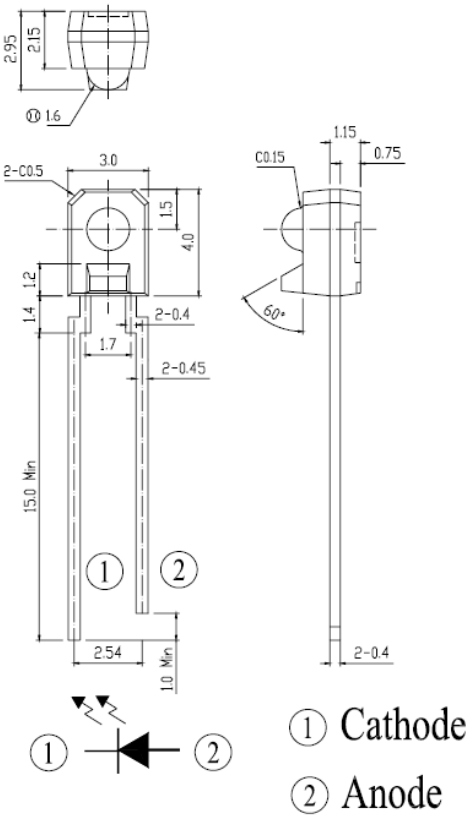
RECORD BY: **DATE:** month/day/year

1. **The document of individual PCN information will be retained for a minimum of 5 years**
2. **When the product to terminate production, check ☐ PRODUCT TERMINATION NOTIFICATION .**

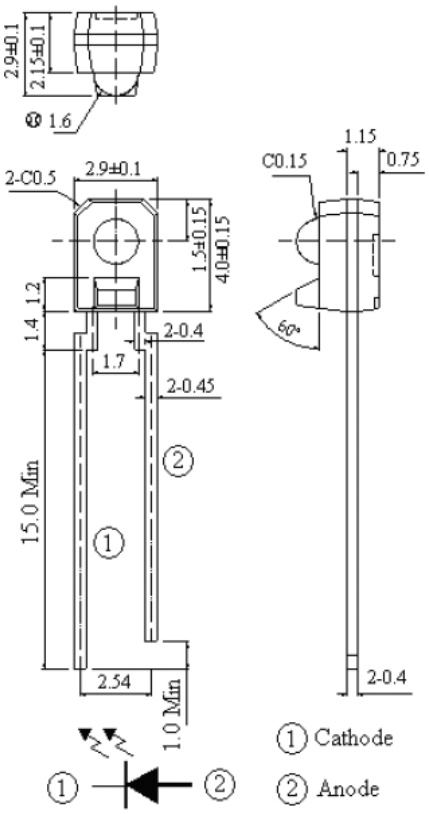
Appendix

1. Dimension Comparison

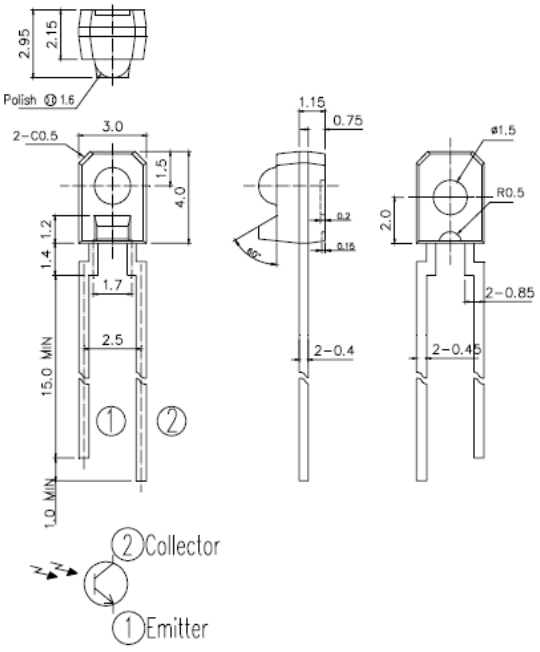
IR958



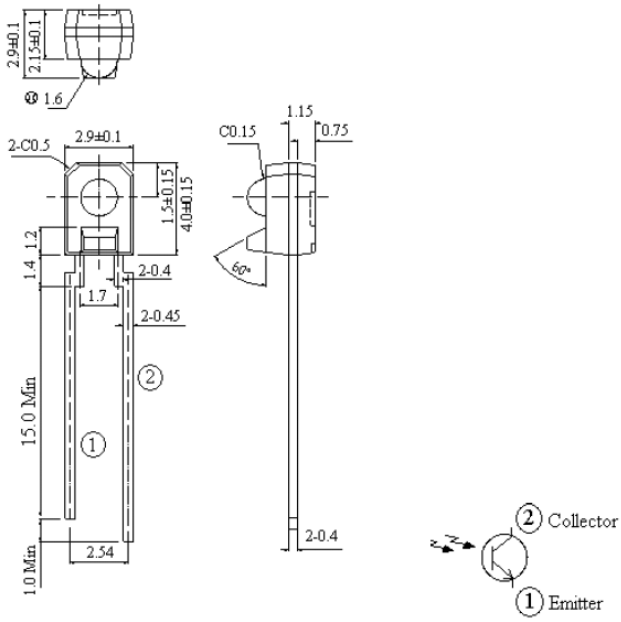
IR968



PT958



PT968



2. Electro-Optical Characteristic Comparison

IR958

■ Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	Min	Typ	Max	Unit	Condition
Collector Current	Ic(on)	306	-	1870	μA	I_F=4mA,V_{CE}=3.5V
Peak Wavelength	λp	-	950	-	nm	I_F =20mA
Spectral Bandwidth	△λ	-	40	-	nm	I_F =20mA
View Angle	2θ1/2	-	25	-	Deg	I_F =20mA
Forward Voltage	V_F	-	1.2	1.5	V	I_F =20mA
Reverse Current	I_R	-	-	10	μA	V_R=5V

IR968

Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	Min	Typ	Max	Unit	Condition
Collector Current	Ic(on)	465	-	1274	μA	I_F=4mA,V_{CE}=3.5V
Peak Wavelength	λp	-	940	-	nm	I_F =20mA
Spectral Bandwidth	△λ	-	45	-	nm	I_F =20mA
View Angle	2θ1/2	-	25	-	Deg	I_F =20mA
Forward Voltage	V_F	-	1.2	1.5	V	I_F =20mA
Reverse Current	I_R	-	-	10	μA	V_R=5V

PT958

Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Collector – Emitter Breakdown Voltage	BV_{CEO}	I_C=100 μA Ee=0mW/cm^2	30	---	---	V
Emitter-Collector Breakdown Voltage	BV_{ECO}	I_E=100 μA Ee=0mW/cm^2	5	---	---	V
Collector-Emitter Saturation Voltage	$V_{(CE)(sat)}$	I_C=2mA Ee=1mW/cm^2	---	---	0.4	V
Rise Time	t_r	V_{CE}=5V I_C=1mA RL=1000Ω	---	15	---	μS
Fall Time	t_f		---	15	---	
Collector Dark Current	I_{CEO}	Ee=0mW/cm^2 V_{CE}=20V	---	---	100	nA
On State Collector Current	$I_{C(on)}$	Ee=0.555mW/cm^2 V_{CE}=5V	0.53	---	3.41	mA
Wavelength of Peak Sensitivity	λ p	---	---	940	---	nm
Rang of Spectral Bandwidth	$\lambda_{0.5}$	---	400	---	1100	nm

PT968

Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Collector – Emitter Breakdown Voltage	BV_{CEO}	30	-----	-----	V	I_C=100μA Ee=0mW/cm^2
Emitter-Collector Breakdown Voltage	BV_{ECO}	5	-----	-----	V	I_E=100μA Ee=0mW/cm^2
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	-----	-----	0.4	V	I_C=2mA Ee=1mW/cm^2
Rise Time	t_r	-----	15	-----	μS	V_{CE}=5V I_C=1mA RL=1000Ω
Fall Time	t_f	-----	15	-----		
Collector Dark Current	I_{CEO}	-----	-----	100	nA	Ee=0mW/cm^2 V_{CE}=20V
On State Collector Current	$I_{C(on)}$	1.59	-----	3.41	mA	Ee=0.555mW/cm^2 VCE=5V
Rang Of Spectral Bandwidth	$\lambda_{0.5}$	400	-----	1100	nm	----
Wavelength of Peak Sensitivity	λ_P	-----	940	-----	nm	----
Half sensitivity angle	2θ1/2	-----	±11	-----	Deg	----