

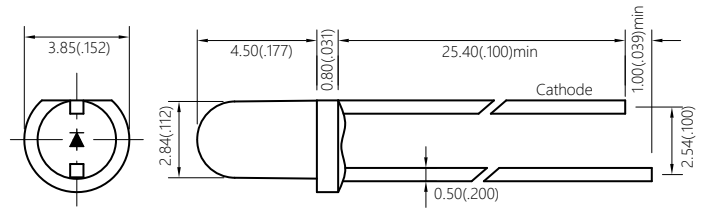


AR Features & Detector

3 mm Infrared Emitting Diode

Through Hole Type

L-31XXIR1X



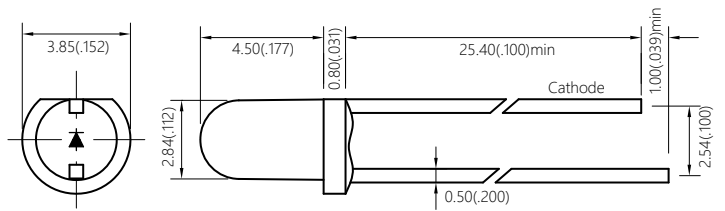
Unit : mm

Part No.	Wavelength λ_d (nm)	Viewing Angle (deg.)	Radiation Intensity I_e (mW/sr)		Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
			Min.	Typ.		
L-314EIR1C	940	20	7	12	1.2@ $I_F=20$ mA 1.4@ $I_F=100$ mA	20
L-316EIR1C	940	30	6	15	1.2@ $I_F=20$ mA 1.4@ $I_F=100$ mA	20
L-318EIR1C	940	40	6	18	1.2@ $I_F=20$ mA 1.4@ $I_F=100$ mA	20
L-314EIR1BC	940	20	2	6	1.2@ $I_F=20$ mA 1.4@ $I_F=100$ mA	20
L-316EIR1BC	940	30	6	15	1.2@ $I_F=20$ mA 1.4@ $I_F=100$ mA	20
L318EIR1BC	940	40	4	8	1.2@ $I_F=20$ mA 1.4@ $I_F=100$ mA	20

3 mm Infrared Emitting Diode

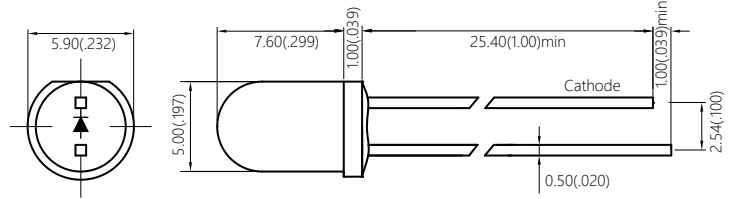
Through Hole Type

L-31XXIR4X

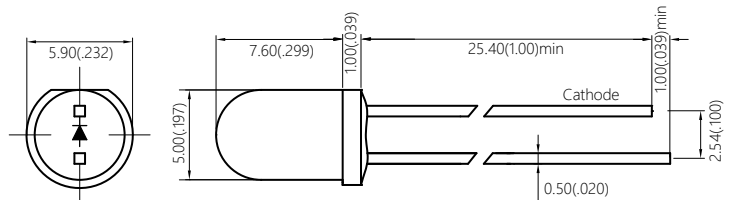


Unit : mm

Part No.	Wavelength λ_d (nm)	Viewing Angle (deg.)	Radiation Intensity I_e (mW/sr)		Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
			Min.	Typ.		
L-314EIR4C	850	20	20	70	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-316EIR4C	850	30	8	15	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-318EIR4C	850	40	20	70	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-319EIR4C	850	20	10	20	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-31AEIR4C	850	50	4	10	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20



Part No.	Wavelength λ_d (nm)	Viewing Angle (deg.)	Radiation Intensity I_e (mW/sr)		Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
			Min.	Typ.		
L-514EIR1C	940	20	17	28	1.2@ $I_F=20$ mA 1.4@ $I_F=100$ mA	20
L-516EIR1C	940	30	12	22	1.2@ $I_F=20$ mA 1.4@ $I_F=100$ mA	20
L-518EIR1C	940	40	6	12	1.3@ $I_F=20$ mA 1.5@ $I_F=100$ mA	20
L-51CEIR1C	940	60	4	8	1.3@ $I_F=20$ mA 1.5@ $I_F=100$ mA	20
L-514EIR1BC	940	20	15	30	1.2@ $I_F=20$ mA 1.4@ $I_F=100$ mA	20
L-516EIR1BC	940	30	12	20	1.2@ $I_F=20$ mA 1.4@ $I_F=100$ mA	20
L-518EIR1BC	940	40	8	18	1.2@ $I_F=20$ mA 1.4@ $I_F=100$ mA	20
L-51AEIR1BC	940	50	2	5	1.2@ $I_F=20$ mA 1.4@ $I_F=100$ mA	20

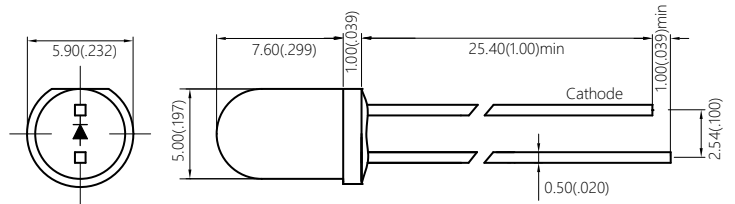


Part No.	Wavelength λ_d (nm)	Viewing Angle (deg.)	Radiation Intensity I_e (mW/sr)		Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
			Min.	Typ.		
L-514EIR2C	880	20	17	28	1.3@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-516EIR2C	880	30	2	7	1.3@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-518EIR2C	880	40	20	50	1.3@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-51AEIR2C	880	50	4	10	1.3@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-514EIR2BC	880	20	15	30	1.3@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-516EIR2BC	880	30	15	30	1.3@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-518EIR2BC	880	40	8	21	1.3@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-51AEIR2BC	880	50	4	8	1.3@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20

5 mm Infrared Emitting Diode

Through Hole Type

L-51XXIR3X



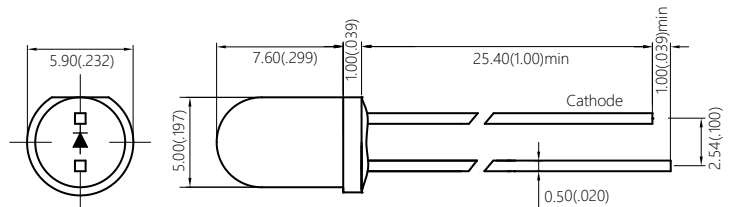
Unit : mm

Part No.	Wavelength λ_d (nm)	Viewing Angle (deg.)	Radiation Intensity I_e (mW/sr)		Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
			Min.	Typ.		
L-514EIR3C	865	20	30	50	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-516EIR3C	865	30	12	30	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-518EIR3C	865	40	10	22	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-51AEIR3C	865	50	10	20	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-514EIR3BC	865	20	25	45	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-516EIR3BC	865	30	12	25	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-518EIR3BC	865	40	10	20	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-51AEIR3BC	865	50	10	18	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20

5 mm Infrared Emitting Diode

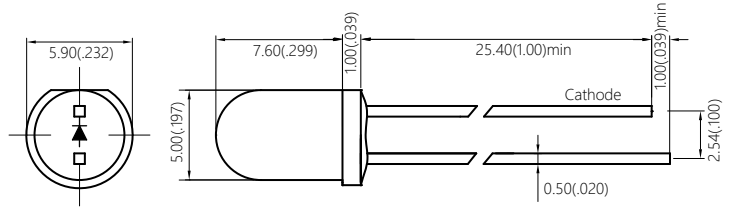
Through Hole Type

L-51XXIR4X



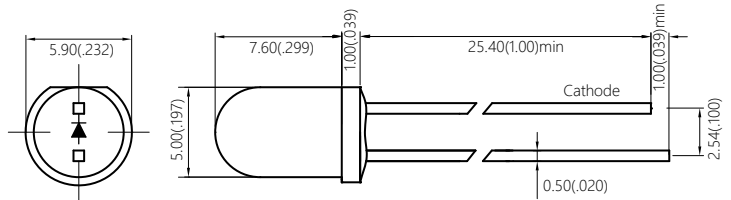
Unit : mm

Part No.	Wavelength λ_d (nm)	Viewing Angle (deg.)	Radiation Intensity I_e (mW/sr)		Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
			Min.	Typ.		
L-514EIR4C	850	20	25	45	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-516EIR4C	850	30	14	45	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-518EIR4C	850	40	10	20	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-51AEIR4C	850	50	8	25	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-51CEIR4C	850	60	8	20	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-514EIR4BC	850	20	20	70	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-516EIR4BC	850	30	12	40	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-518EIR4BC	850	40	12	35	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-51AEIR4BC	850	50	10	25	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20



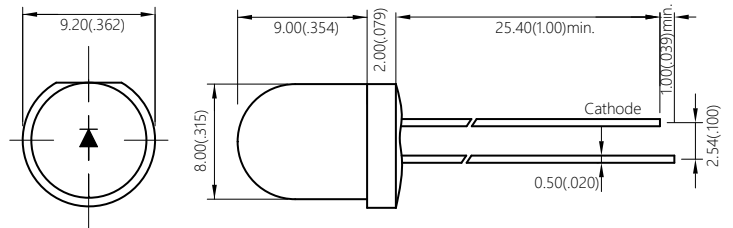
Unit : mm

Part No.	Wavelength λ_d (nm)	Viewing Angle (deg.)	Radiation Intensity I_e (mW/sr)		Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
			Min.	Typ.		
L-514GIR4C	850	20	60	175	1.4@ $I_F=70$ mA 1.5@ $I_F=100$ mA	100
L-516GIR4C	850	30	30	80	1.4@ $I_F=70$ mA 1.5@ $I_F=100$ mA	100
L-518GIR4C	850	40	60	85	1.4@ $I_F=70$ mA 1.5@ $I_F=100$ mA	100
L-51AGIR4C	850	50	28	40	1.4@ $I_F=70$ mA 1.5@ $I_F=100$ mA	100
L-514GIR4BC	850	20	127	170	1.4@ $I_F=70$ mA 1.5@ $I_F=100$ mA	100
L-516GIR4BC	850	30	112	160	1.4@ $I_F=70$ mA 1.5@ $I_F=100$ mA	100
L-518GIR4BC	850	40	55	85	1.4@ $I_F=70$ mA 1.5@ $I_F=100$ mA	100



Unit : mm

Part No.	Wavelength λ_d (nm)	Viewing Angle (deg.)	Radiation Intensity I_e (mW/sr)		Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
			Min.	Typ.		
L5PGEIR4C	850	65	4	8	1.2	20
L5PGEIR1C	940	80	2	4	1.2	20



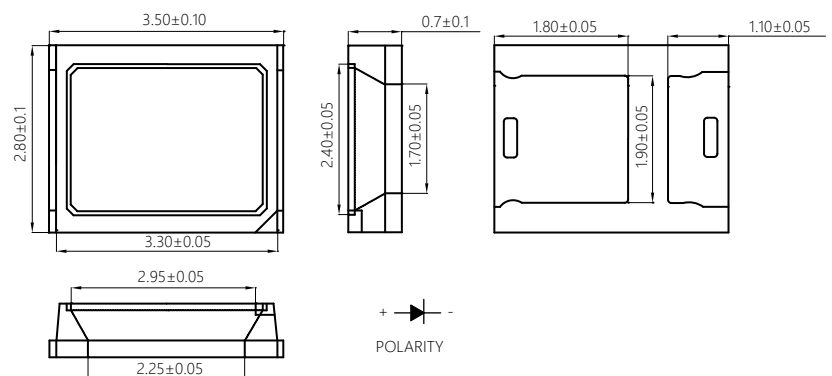
Unit : mm

Part No.	Wavelength λ_d (nm)	Viewing Angle (deg.)	Radiation Intensity I_e (mW/sr)		Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
			Min.	Typ.		
L-814EIR4C	850	20	32	50	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-816EIR4C	850	30	20	35	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-818EIR4C	850	40	15	25	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20
L-81AEIR4C	850	50	8	14	1.4@ $I_F=20$ mA 1.6@ $I_F=100$ mA	20

2835 IR

IR Emitter PLCC

LT2835 IR Series



2.8 × 3.5 × 0.7mm

Unit : mm

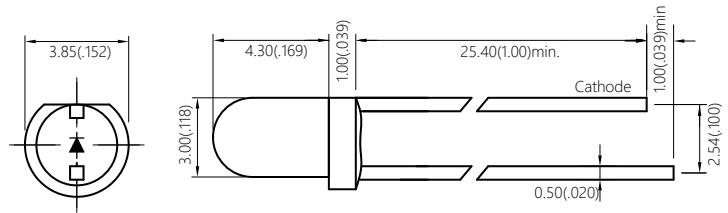
Part No.	Wavelength λ_d (nm)	Lens Type	Viewing Angle (deg.)	Typ. Radiation Intensity I_e (mW/sr)	Forward Voltage Typ. V_F (V)	Forward Current I_F (mA)
L-T2835IR4CT-20	850	Water Clear	120	250	1.6	60
L-T2835IR4CT-24	850	Water Clear	120	350	1.9	60

3.0 mm

Phototransistor

L-31ROPT1X

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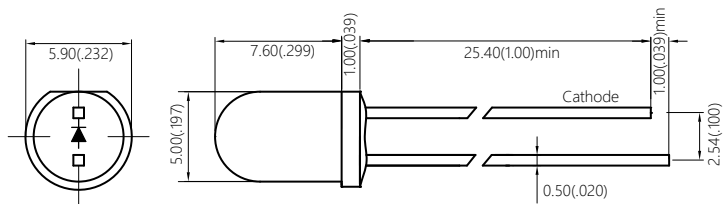
Unit : mm

Part No.	Min. Collector-Emitter Breakdown Voltage BV_{CEO} (V) @ $I_C=100\mu A$; $E_o=0$ mW/cm ²	Min. Emitter-Collector Breakdown Voltage BV_{ECO} (V) @ $I_E=100\mu A$; $E_o=0$ mW/cm ²	Max. Collector Dark Current I_{CEO} (nA) @ $V_{CE}=10V$; $E_o=0$ mW/cm ²	Max. Collector-Emitter Saturation Voltage $V_{CE(S)}$ (V) @ $I_C=2mA$; $E_o=0.5$ mW/cm ²	Typ. On State Collector Current I_C (mA) @ $V_{CE}=5V$; $E_o=0.1$ mW/cm ²	Spectral Sensitivity Wavelength λ_p (nm)		
						Min.	Typ.	Max.
L-31ROPT1C	30	5	100	0.4	4	400		1050
L-31ROPT1D1	30	5	100	0.4	1.2	900	940	
L-31ROPT1D2	30	5	100	0.4	2	800	870	

5.0 mm

Phototransistor

L-51ROPT1X

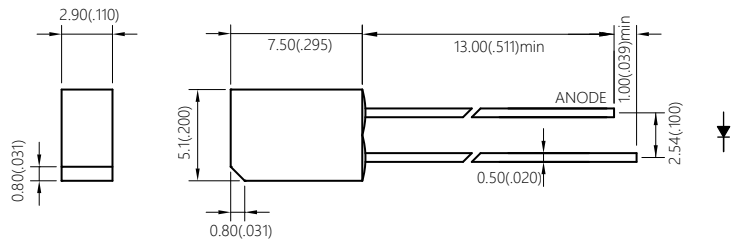
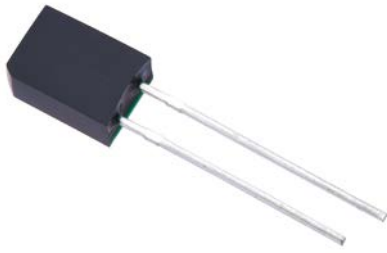


Unit : mm

Part No.	Min. Collector-Emitter Breakdown Voltage BV_{CEO} (V) @ $I_C=100\mu A$; $E_o=0$ mW/cm ²	Min. Emitter-Collector Breakdown Voltage BV_{ECO} (V) @ $I_E=100\mu A$; $E_o=0$ mW/cm ²	Max. Collector Dark Current I_{CEO} (nA) @ $V_{CE}=10V$; $E_o=0$ mW/cm ²	Max. Collector-Emitter Saturation Voltage $V_{CE(S)}$ (V) @ $I_C=2mA$; $E_o=0.5$ mW/cm ²	Typ. On State Collector Current I_C (mA) @ $V_{CE}=5V$; $E_o=0.1$ mW/cm ²	Spectral Sensitivity Wavelength λ_p (nm)		
						Min.	Typ.	Max.
L-51ROPT1C	30	5	100	0.4	2	400		1050
L-51ROPT1D1	30	5	100	0.4	1.2	900	940	
L-51ROPT1D2	30	5	100	0.4	1.2	800	870	

Photodiode

L-SB1R9PD1X

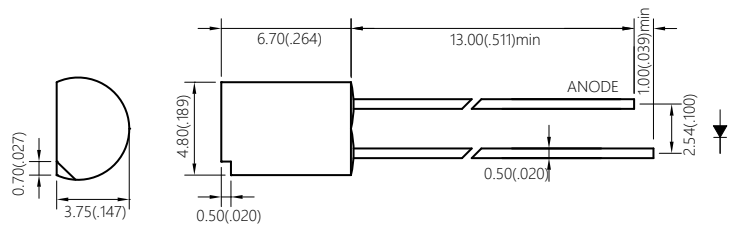


Unit : mm

Part No.	Max. Reverse Dark Current I_D (nA) @ $V_R=10V$; $E_e=0$ mW/cm ²	Min. Reverse Voltage $V(BR)R$ (V) @ $I_R=100\mu A$; $E_e=0$ mW/cm ²	Typ. Open Circuit Voltage V_{OC} (V) @ $E_e=5$ mW/cm ²	Typ. Light Current I_L (μA) @ $V_R=5V$; $E_e=5$ mW/cm ²	Total Capacitance C_T (PF) @ $f=1$ mhz; $V_R=5V$; $E_e=0$ mW/cm ²	Spectral Sensitivity Wavelength λ_p (nm)		
						Min.	Typ.	Max.
L-SB1R9PD1C	30	33	390	40	18	400		1050
L-SB1R9PD1D1	30	33	390	40	18	900	940	
L-SB1R9PD1D2	30	33	390	40	18	800	870	

Photodiode

L-SC1R9PD1X



Unit : mm

Part No.	Max. Reverse Dark Current I_D (nA) @ $V_R=10V$; $E_e=0$ mW/cm ²	Min. Reverse Voltage $V(BR)R$ (V) @ $I_R=100\mu A$; $E_e=0$ mW/cm ²	Typ. Open Circuit Voltage V_{OC} (V) @ $E_e=5$ mW/cm ²	Typ. Light Current I_L (μA) @ $V_R=5V$; $E_e=5$ mW/cm ²	Total Capacitance C_T (PF) @ $f=1$ mhz; $V_R=5V$; $E_e=0$ mW/cm ²	Spectral Sensitivity Wavelength λ_p (nm)		
						Min.	Typ.	Max.
L-SC1R9PD1C	30	33	390	40	18	400		1050
L-SC1R9PD1D1	30	33	390	40	18	900	940	
L-SC1R9PD1D2	30	33	390	40	18	800	870	

HEADQUARTERS

光鼎電子股份有限公司

Para Light Electronics Co., Ltd.

23586 新北市中和區建康路 8 號 11 樓

11F, No. 8, Jiankang Rd., Zhonghe Dist.

New Taipei City, 23586 Taiwan

☎ +886-2-2225-3733

☎ +886-2-2225-4800

✉ para@para.com.tw

www.paralighttaiwan.com

FACTORY

连云港光鼎电子有限公司

Para Light Lianyungang Electronics Co., Ltd.

江苏省连云港灌南经济开发区威海路8号

No.8, Wei Hai Rd., Guannan Economic Development Zone

Lianyungang City, Jiansu Province, 222500 China

☎ +86-518-8369-2888

☎ +86-518-8369-2899

南京华鼎电子有限公司

Para Light Nanjing Electronics Co., Ltd.

江苏省南京市江宁区汤山街道汤泉西路1号

No.1, Tangquan W. Rd., Tangshan Ave., Jianning Dist.

Nanjing City, Jiansu Province, 211131 China

☎ +86-25-8410-7685

☎ +86-25-8410-7684

SALES OFFICES

AMERICA

Para Light Corp. USA

515 Spanish Lane, Suite # A&B, Walnut, CA 91789, USA

Toll Free +1 (877) 377-PARA

☎ +1 (909) 468-4866

✉ sales@paralightusa.com

www.paralightusa.com

CHINA 華南區 South China

光鼎深圳實業有限公司

PARA LIGHT(Shenzhen) Electronics Co., Ltd.

深圳市龙华区龙观东路57号尚美时代大厦1310-1312室

Room 1310-1312, Shangmei Times Building,

No.57 Longguan East Road, Longhua Dist.

Shenzhen City, CHINA

☎ +86-189-2747-1103

✉ eddy@paralight.com.cn

CHINA 華東區 East China

蘇州光鼎電子有限公司

PARA LIGHT (SUZHOU) Electronics Co., Ltd.

苏州新区狮山路199号新地中心2104室

Room 2104, No.199 Xindi Center Building, Shishan Road

Suzhou City, Jiansu Province, 215000 CHINA

☎ +86-185-5224-7780

☎ +86-512-6809-7669

✉ susie@parahk.com

CHINA 華北區 North China

青島辦事處 Qingdao Sales Office

青島市山东路130号嘉合新兴1号楼2单元2603

2603, Unit 2, Building 1, Jiahe Xinxing,

No. 130, Shandong Road, Qingdao City,

Shandong Province, China

☎ +86-0532-8569-2571

☎ +86-186-2642-9477

✉ tianjin@paralight.com.cn

TAIWAN / ASIA / EUROPE / MID EAST

光鼎電子股份有限公司

Para Light Electronics Co., LTD.

23586 新北市中和區建康路 8 號 11 樓

11F, No. 8, Jiankang Rd., Zhonghe Dist.

New Taipei City, 23586 Taiwan

☎ +886-2-2225-3733

☎ +886-2-2225-4800

✉ para@para.com.tw

www.paralighttaiwan.com



www.paralighttaiwan.com



光鼎電子股份有限公司

PARA LIGHT ELECTRONICS CO., LTD.

t +886-2-2225-3733

f +886-2-2225-4800

e para@para.com.tw



23586 新北市中和區建康路 8 號11樓

11F, No. 8, Jiankang Rd., Zhonghe Dist.,

New Taipei City 23586, Taiwan

www.paralighttaiwan.com