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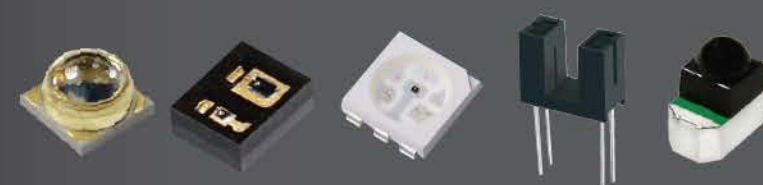
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🌐 www.paralightusa.com

2022

Infrared LED

| Component



Chairman Mr. David Ma
Established in 1987
Capital USD 37million
No. of Employee 1028

Founded in 1987, PARA LIGHT is now a global innovator and leader in visible and invisible LED fields. With two manufacturing plants certified with ISO 14001, ISO 9001, TS16969, and also complies with REACH and RoHS.

We offer advanced and beyond expectation R&D services based on the strongest lineup ever of 1,028 employees located in different countries and cities that includes more than 70 professional engineers, and 80 Quality Assurance squad.

About the product category, from the elementary LED component to further appliance such as UV sensor, LED back light, integrated light module, commercial lighting, automotive lighting and any lighting solution, PARA LIGHT keeps growing and expanding the products diversity in response to the global industry or market trend.

EMITTER



3 mm	06-07
5 mm	08-11
PLCC Series	12-13
SMD Series	14-15
High Power Series	16-17

PHOTODIODE



Photodiode	19-20
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PHOTOTRANSISTOR



Phototransistor	23-25
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TRANSMITTER
and RECEIVER



Transmitter and Receiver

26-27

OPTICAL SWITCH



Transmissive Series

29-30

OPTICAL SENSOR



Ambient Light Sensor

32-33

TWS Proximity Sensor

34-35

Pulse Sensor

36-37

Pulse Oximeter Sensor

38-39

UVC SERIES



LT3535, LT5050

40-42

UVC+UVA

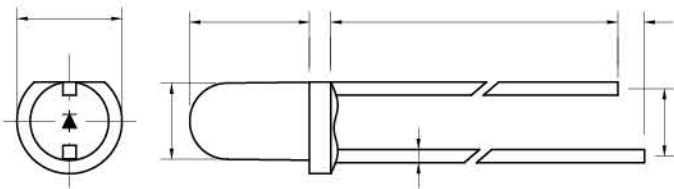
43

Emitter-Through hole Series

- Remote Controller - IP-Camera - CCTV

L31XXIR4X 850 nm

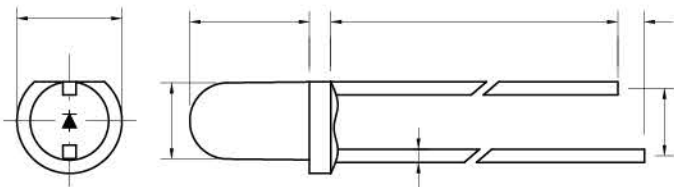
Outline Dimensions 3 mm



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.		
L314EIR4C	850 nm	20	8	20	1.4@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L316EIR4C	850 nm	30	8	15	1.3@ $I_f=20$ mA 1.6@ $I_f=100$ mA	20
L318EIR4C	850 nm	40	8	20	1.4@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L319EIR4C	850 nm	20	8	18	1.4@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L31AEIR4C	850 nm	50	5	10	1.4@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20

L31XXIR1X 940 nm

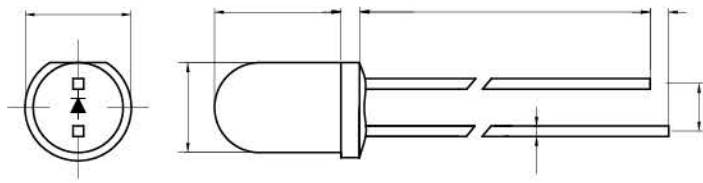
Outline Dimensions 3 mm



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.		
L314EIR1C	940 nm	20	6	12	1.3@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L316EIR1C	940 nm	30	4	15	1.3@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L318EIR1C	940 nm	40	6	18	1.3@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L314EIR1BC	940 nm	20	15	22	1.2@ $I_f=20$ mA 1.4@ $I_f=100$ mA	20
L316EIR1BC	940 nm	30	15	20	1.3@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L318EIR1BC	940 nm	40	4	8	1.3@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20

L51XXIR1X 940 nm

Outline Dimensions 5 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.		
L514EIR1C	940 nm	20	15	28	1.2@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L516EIR1C	940 nm	30	8	22	1.3@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L518EIR1C	940 nm	40	4	12	1.2@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L51CEIR1C	940 nm	60	4	8	1.2@ $I_f=20$ mA 1.4@ $I_f=100$ mA	20
L514EIR1BC	940 nm	20	15	30	1.3@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L516EIR1BC	940 nm	30	10	20	1.2@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L518EIR1BC	940 nm	40	8	18	1.3@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20
L51AEIR1BC	940 nm	50	4	12	1.3@ $I_f=20$ mA 1.5@ $I_f=100$ mA	20

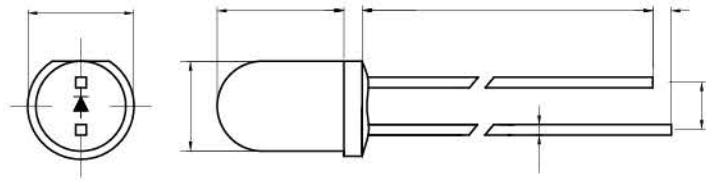
L51XXIR3X 865 nm

Outline Dimensions 5 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.		
L514EIR3C	865 nm	20	30	50	1.4@ $I_f=20$ mA 1.6@ $I_f=100$ mA	20
L516EIR3C	865 nm	30	12	30	1.4@ $I_f=20$ mA 1.6@ $I_f=100$ mA	20
L518EIR3C	865 nm	40	10	22	1.4@ $I_f=20$ mA 1.6@ $I_f=100$ mA	20
L51AEIR3C	865 nm	50	10	20	1.4@ $I_f=20$ mA 1.6@ $I_f=100$ mA	20
L514EIR3BC	865 nm	20	25	45	1.4@ $I_f=20$ mA 1.6@ $I_f=100$ mA	20
L516EIR3BC	865 nm	30	12	25	1.4@ $I_f=20$ mA 1.6@ $I_f=100$ mA	20
L518EIR3BC	865 nm	40	10	20	1.4@ $I_f=20$ mA 1.6@ $I_f=100$ mA	20
L51AEIR3BC	865 nm	50	10	18	1.4@ $I_f=20$ mA 1.6@ $I_f=100$ mA	20

L51XGIR4XX 850 nm

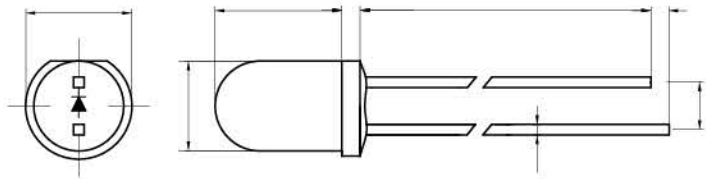
Outline Dimensions 5 mm



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.		
L514GIR4C	850 nm	20	110	160	1.4@ $I_f=20$ mA 1.5@ $I_f=100$ mA	100
L516GIR4C	850 nm	30	30	70	1.5@ $I_f=20$ mA 1.6@ $I_f=100$ mA	100
L518GIR4C	850 nm	40	68	85	1.4@ $I_f=20$ mA 1.5@ $I_f=100$ mA	100
L51AGIR4C	850 nm	50	24	40	1.4@ $I_f=20$ mA 1.5@ $I_f=100$ mA	100

L51XXIR2X 880 nm

Outline Dimensions 5 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.		
L514EIR2C	880 nm	20	12	28	1.3@ $I_f=20\text{mA}$ 1.6@ $I_f=100\text{mA}$	20
L516EIR2C	880 nm	30	2	7	1.3@ $I_f=20\text{mA}$ 1.6@ $I_f=100\text{mA}$	20
L518EIR2C	880 nm	40	20	21	1.3@ $I_f=20\text{mA}$ 1.6@ $I_f=100\text{mA}$	20
L51AEIR2C	880 nm	50	4	10	1.3@ $I_f=20\text{mA}$ 1.6@ $I_f=100\text{mA}$	20
L514EIR2BC	880 nm	20	15	30	1.3@ $I_f=20\text{mA}$ 1.6@ $I_f=100\text{mA}$	20

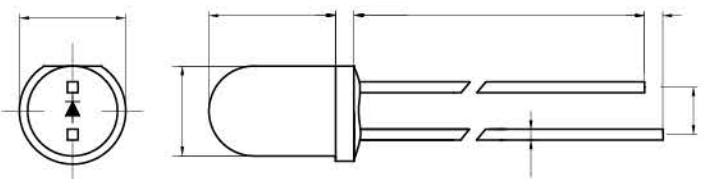
L51XXIR4X 850 nm

Outline Dimensions 5 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.		
L514EIR4C	850 nm	20	25	45	1.6@ $I_f=20\text{mA}$ 1.7@ $I_f=100\text{mA}$	20
L516EIR4C	850 nm	30	21	33	1.6@ $I_f=20\text{mA}$ 1.7@ $I_f=100\text{mA}$	20
L518EIR4C	850 nm	40	10	20	1.4@ $I_f=20\text{mA}$ 1.5@ $I_f=100\text{mA}$	20
L51AEIR4C	850 nm	50	12	25	1.6@ $I_f=20\text{mA}$ 1.7@ $I_f=100\text{mA}$	20
L51CEIR4C	850 nm	60	10	20	1.4@ $I_f=20\text{mA}$ 1.6@ $I_f=100\text{mA}$	20
L514EIR4BC	850 nm	20	56	65	1.4@ $I_f=20\text{mA}$ 1.5@ $I_f=100\text{mA}$	20
L516EIR4BC	850 nm	30	32	40	1.4@ $I_f=20\text{mA}$ 1.5@ $I_f=100\text{mA}$	20
L518EIR4BC	850 nm	40	28	35	1.4@ $I_f=20\text{mA}$ 1.5@ $I_f=100\text{mA}$	20
L51AEIR4BC	850 nm	50	10	25	1.4@ $I_f=20\text{mA}$ 1.5@ $I_f=100\text{mA}$	20

L5PGEIRXX 850 nm / 940 nm

Outline Dimensions 5 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 nm	55	4	8	1.2	20
L5PGEIR1C	940 nm	80	2	4	1.2	20



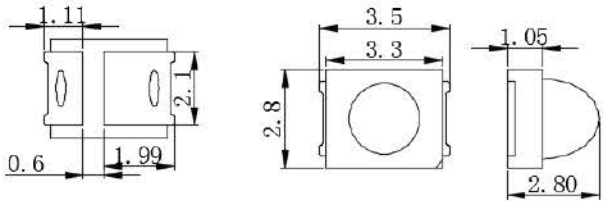
Emitter-PLCC Series

- IP-Camara - CCTV - Drowsy Driver Detection - Iris Recognition - Face Recognition
- AR / VR / Gesture Recognition / VCSEL 3D Sensing (TOF) - Vein Stria Recognition



LT2835 850 nm

Outline Dimensions 2.8x3.5x2.42 mm



Part No.	Wavelength λ_d (nm)	Lens Type	Viewing Angle (deg.)	Typ. Radiation Intensity I_e (mW/sr)	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LT2835IR4CT-30	850 nm	Water Clear	30	80~140	1.2~1.7	150
LT2835IR4CT-60	850 nm	Water Clear	60	80~140	1.2~1.7	150
LT2835IR4CT-90	850 nm	Water Clear	90	60~100	1.2~1.7	150

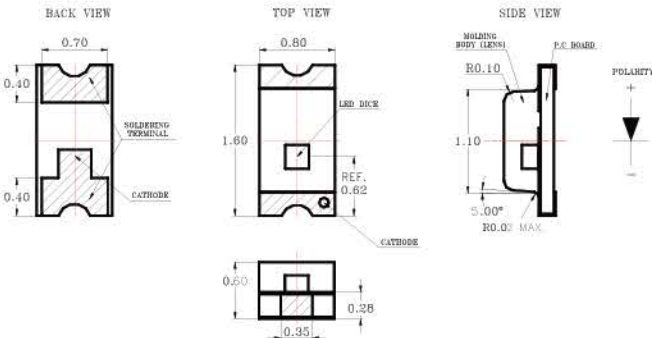


- IP-Camara
- CCTV
- Drowsy Driver Detection
- Iris Recognition
- Face Recognition
- AR / VR / Gesture Recognition / VCSEL 3D Sensing (TOF)
- Vein Stria Recognition



LC191 940 nm

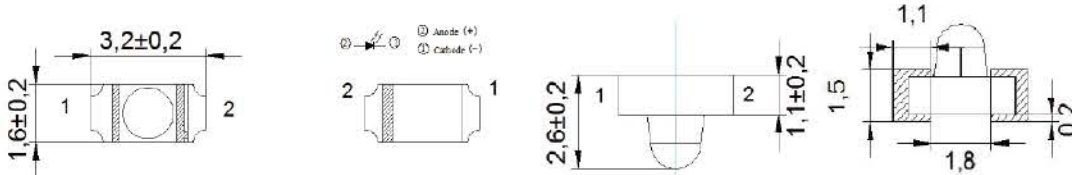
Outline Dimensions 1.6x0.7x0.6 mm



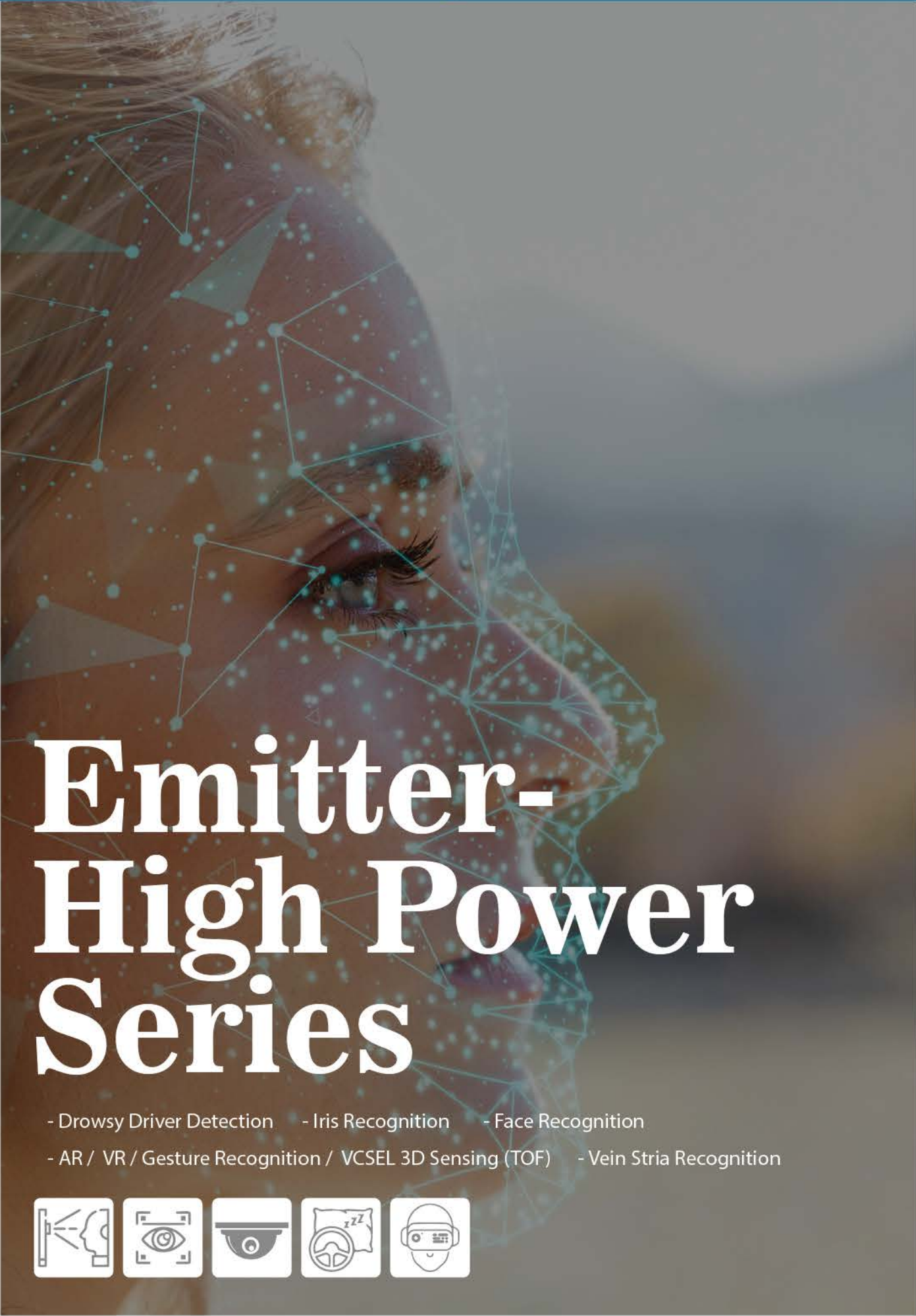
Part No.	Package	Reverse Light Current (IL)	Wavelength(nm)	Viewing Angle(°)
LC191IR1CT	SMD	10	940 nm	130

LC191 940 nm

Outline Dimensions 3.2x1.6x2.6 mm



Part No.	Package	Reverse Light Current (IL)	Wavelength(nm)	Viewing Angle(°)
LS156AIR1C-HD	SMD	10	940 nm	30



Emitter-High Power Series

- Drowsy Driver Detection

- Iris Recognition

- Face Recognition

- AR / VR / Gesture Recognition / VCSEL 3D Sensing (TOF)

- Vein Stria Recognition

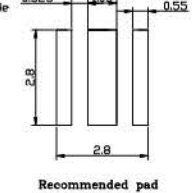
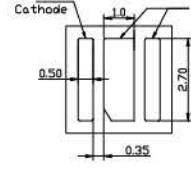
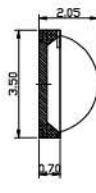
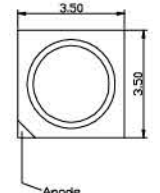


LT3535

850 nm / 940 nm

Outline Dimensions 3.5x3.5x2.05 mm



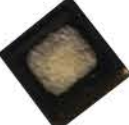


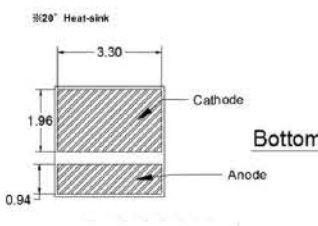
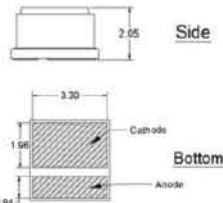
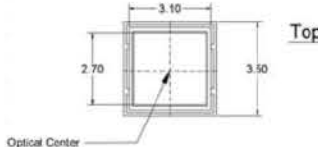
Part No.	test condition (IF)	Radiant Intensity(mW)	Wavelength(nm)	Viewing Angle(°)
LT3535IR4CT-N-P-E-B	350 mA	250 mW	850 nm	120
LT3535IR4CT-N-Y-E-B	350 mA	240 mW	850 nm	150
LT3535IR4CT-R-P-E-B	350 mA	195 mW	850 nm	120
LT3535IR4CT-R-Y-E-B	1000 mA	145 mW	850 nm	150
LT3535IR4CT-U-P-E-B	1000 mA	175 mW	850 nm	120
LT3535IR4CT-U-Y-E-B	1000 mA	165 mW	850 nm	150
LT3535IR1CT-N-Y-E-B	350 mA	40 mW	940 nm	150

LT3535

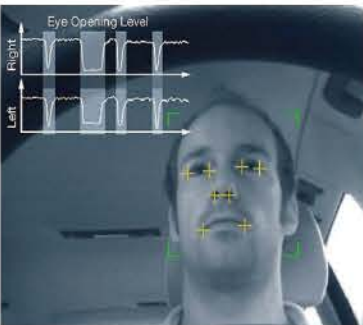
850 nm / 940 nm

Outline Dimensions 3.5x3.5x2.05 mm





Part No.	test condition (IF)	Radiant Intensity(mW)	Wavelength(nm)	Viewing Angle(°)
LT3535IR1CT-55-72-1W-ZGY	1.25 mA	1000 mW	940 nm	55 / 72
LT3535IR1CT-55-72-2W-ZGY	2.5 mA	2000 mW	940 nm	55 / 72



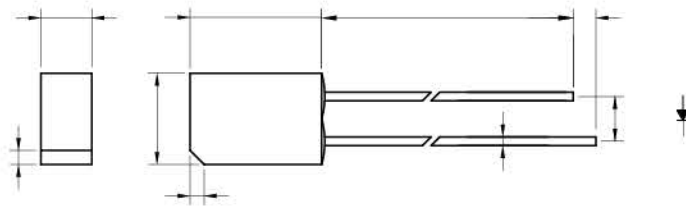
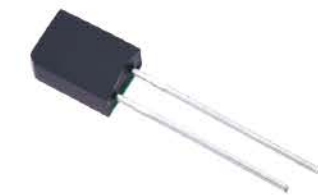
Vein Stria Recognition

Drowsy Driver Detection



LSB1R9PD1X

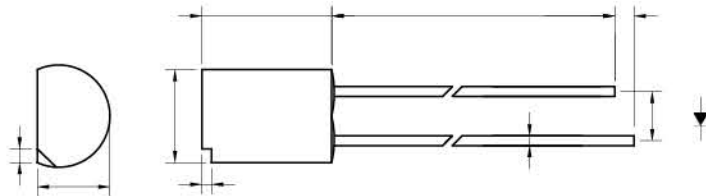
Outline Dimensions 5 mm



Part No.	Max. Reverse Dark Current I_D (nA) @ $V_R=10V$; $E_e=0 \text{ mW/cm}^2$	Min. Reverse Voltage $V(BR)R$ (V) @ $I_R=100\mu A$; $E_e=0 \text{ mW/cm}^2$	Typ. Open Circuit Voltage V_{OC} (V) @ $E_e=5 \text{ mW/cm}^2$	Typ. Light Current I_L (μA) @ $V_R=5V$; $E_e=5 \text{ mW/cm}^2$	Total Capacitance C_T (PF) @ $f=1 \text{ mHz}$; $V_R=5V$; $E_e=0 \text{ mW/cm}^2$	Spectral Sensitivity Wavelength λ_p (nm)		
						Min.	Typ.	Max.
LSB1R9PD1C	30	33	390	40	18	400		1050
LSB1R9PD1D1	30	33	390	40	18	900	940	
LSB1R9PD1D2	30	33	390	40	18	800	870	

LSC1R9PD1X

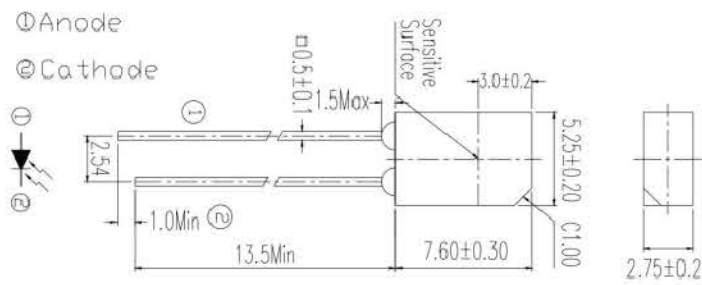
Outline Dimensions 4 mm



Part No.	Max. Reverse Dark Current I_D (nA) @ $V_R=10V$; $E_e=0 \text{ mW/cm}^2$	Min. Reverse Voltage $V(BR)R$ (V) @ $I_R=100\mu A$; $E_e=0 \text{ mW/cm}^2$	Typ. Open Circuit Voltage V_{OC} (V) @ $E_e=5 \text{ mW/cm}^2$	Typ. Light Current I_L (μA) @ $V_R=5V$; $E_e=5 \text{ mW/cm}^2$	Total Capacitance C_T (PF) @ $f=1 \text{ mHz}$; $V_R=5V$; $E_e=0 \text{ mW/cm}^2$	Spectral Sensitivity Wavelength λ_p (nm)		
						Min.	Typ.	Max.
LSC1R9PD1C	30	33	390	40	18	400		1050
LSC1R9PD1D1	30	33	390	40	18	900	940	
LSC1R9PD1D2	30	33	390	40	18	800	870	

LSB1R12PD1D1

Outline Dimensions 5 mm



Part No.	Package	Reverse Light Current (IL)	Wavelength(nm)	Viewing Angle(°)
LSB1R12PD1D1-ZGY	DIP	25	840 nm ~ 1100 nm	120





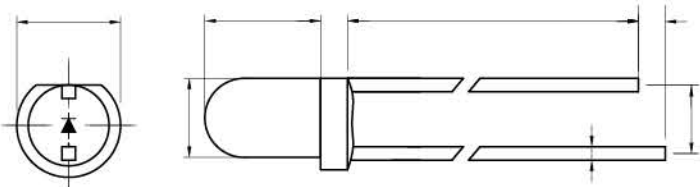
Phototransistor

- Photo-Switch - Detecting Object - Decoder



L31ROPT1X

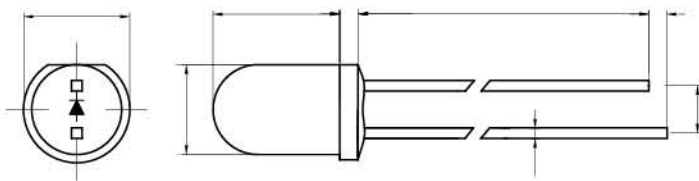
Outline Dimensions 3 mm



Part No.	Min. Collector-Emitter Breakdown Voltage BV _{CEO} (V) @I _C =100μA; E _e =0 mW/cm ²	Min. Emitter-Collector Breakdown Voltage BV _{ECO} (V) @I _C =100μA; E _e =0 mW/cm ²	Max. Collector Dark Current I _{CEO} (nA) @V _{CE} =10V; E _e =0 mW/cm ²	Max. Collector-Emitter Saturation Voltage V _{CE(S)} (V) @I _C =2mA; E _e =0.5 mW/cm ²	Typ. On State Collector Current I _C (mA) @V _{CE} =5V; E _e =0.1mW/cm ²	Spectral Sensitivity Wavelength λ _p (nm)		
						Min.	Typ.	Max.
L31ROPT1C	30	5	100	0.4	4	400		1050
L31ROPT1D1	30	5	100	0.4	1.2	900	940	
L31ROPT1D2	30	5	100	0.4	2	800	870	

L51ROPT1X

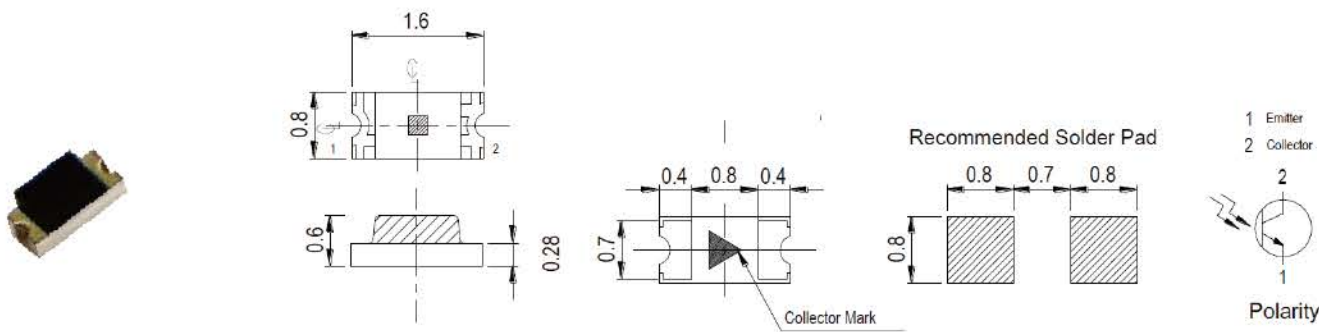
Outline Dimensions 5 mm



Part No.	Min. Collector-Emitter Breakdown Voltage BV _{CEO} (V) @I _C =100μA; E _e =0 mW/cm ²	Min. Emitter-Collector Breakdown Voltage BV _{ECO} (V) @I _C =100μA; E _e =0 mW/cm ²	Max. Collector Dark Current I _{CEO} (nA) @V _{CE} =10V; E _e =0 mW/cm ²	Max. Collector-Emitter Saturation Voltage V _{CE(S)} (V) @I _C =2mA; E _e =0.5 mW/cm ²	Typ. On State Collector Current I _C (mA) @V _{CE} =5V; E _e =0.1mW/cm ²	Spectral Sensitivity Wavelength λ _p (nm)		
						Min.	Typ.	Max.
L51ROPT1C	30	5	100	0.4	2	400		1050
L51ROPT1D1	30	5	100	0.4	1.2	900	940	
L51ROPT1D2	30	5	100	0.4	1.2	800	870	

LSB1R12PD1D1

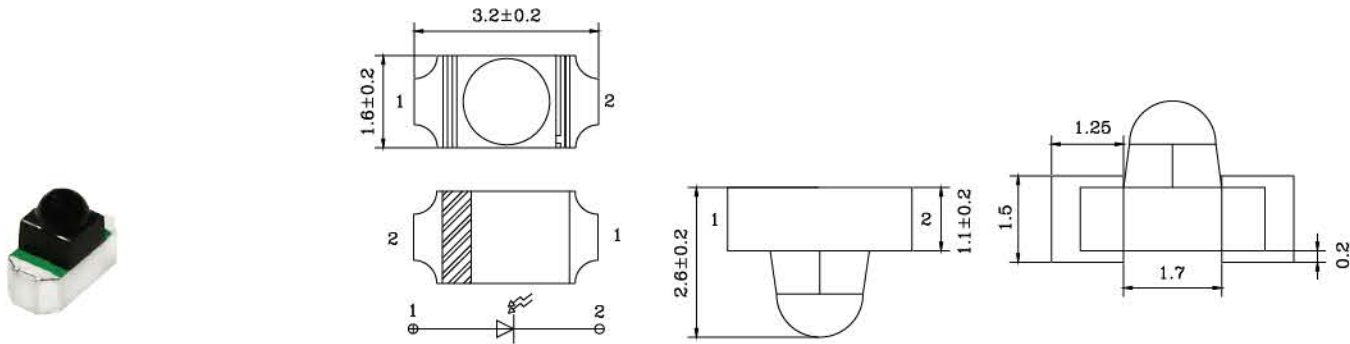
Outline Dimensions 1.6x0.8x0.6 mm



Part No.	Min. Collector-Emitter Breakdown Voltage BV _{CEO} (V) @I _C =100μA; E _e =0 mW/cm ²	Min. Emitter-Collector Breakdown Voltage BV _{ECO} (V) @I _E =100μA; E _e =0 mW/cm ²	Max. Collector Dark Current I _{CEO} (nA) @V _{CE} =20V; E _e =0 mW/cm ²	Max. Collector-Emitter Saturation Voltage V _{CE(S)} (V) @I _C =2mA; E _e =1 mW/cm ²	Typ. On State Collector Current I _C (mA) @V _{CE} =5V; E _e =1 mW/cm ²	Spectral Sensitivity Wavelength λ _p (nm)		
						Min.	Typ.	Max.
LC191PTBT-HD	30	5	100	0.4	1.14		940	

LSB1R12PD1D1

Outline Dimensions 3.2x1.6x2.6 mm



Part No.	Min. Collector-Emitter Breakdown Voltage BV _{CEO} (V) @I _C =100μA; E _e =0 mW/cm ²	Min. Emitter-Collector Breakdown Voltage BV _{ECO} (V) @I _E =100μA; E _e =0 mW/cm ²	Max. Collector Dark Current I _{CEO} (nA) @V _{CE} =10V; E _e =0 mW/cm ²	Max. Collector-Emitter Saturation Voltage V _{CE(S)} (V) @I _C =2mA; E _e =1 mW/cm ²	Typ. On State Collector Current I _C (mA) @V _{CE} =5V; E _e =1 mW/cm ²	Spectral Sensitivity Wavelength λ _p (nm)		
						Min.	Typ.	Max.
LS153PTDT-LENS-RB	30	5	30	0.4	1.0		940	

LS153CIR1CT

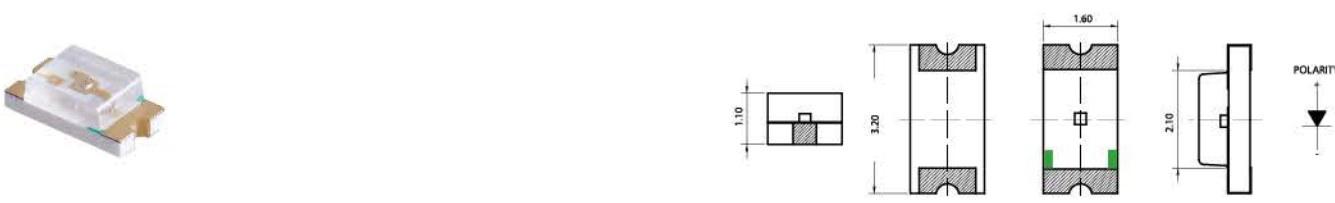
Outline Dimensions 3.2x1.6x1.9 mm



Part No.	Wavelength λ _d (nm)	Forward Current I _F (mA)	Radiant Intensity I _e (mW/sr)		Typ. Forward Voltage V _F (V) 1.4@I _F =20mA 1.6@I _F =100mA	Viewing Angle(°)
			Min.	Typ.		
LS153CIR1CT	940 nm	20	6	9		30

LC150IR1CT

Outline Dimensions 3.2x1.6x1.1 mm



Part No.	Wavelength λ _d (nm)	Forward Current I _F (mA)	Radiant Intensity I _e (mW/sr)		Typ. Forward Voltage V _F (V) 1.4@I _F =20mA 1.6@I _F =100mA	Viewing Angle(°)
			Min.	Typ.		
LC150IR1CT	940 nm	20	0.45	1.2		130

LS153PTDT

Outline Dimensions 3.2x1.6x2 mm



Part No.	Package	Light Current (mA)	Wavelength (nm)	Viewing Angle(°)
LS153PTDT	SMD	2.6	900 nm ~ 940 nm	30

LC150PTDT

Outline Dimensions 3.2x1.6x1.1 mm



Part No.	Package	Light Current (mA)	Wavelength (nm)	Viewing Angle(°)
LC150PTDT	SMD	2	900 nm ~ 940 nm	130

Transmitter and Receiver

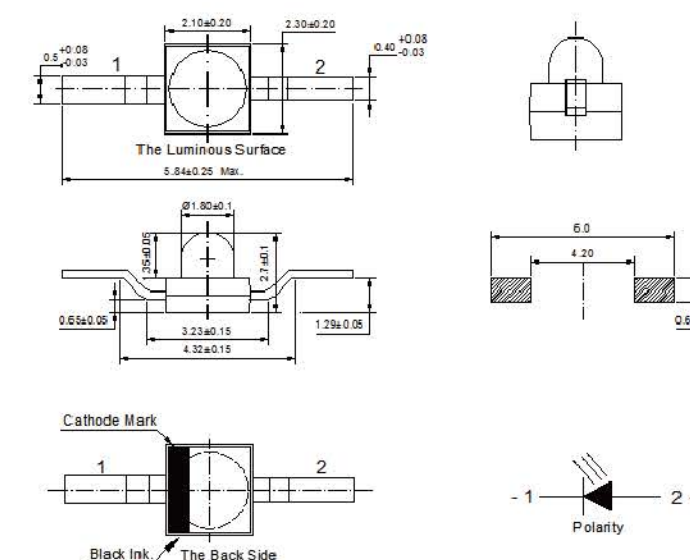
- IP-Camera
- Photoelectric encoder



L180IR1C



Outline Dimensions 5.8x2.1x2.7 mm

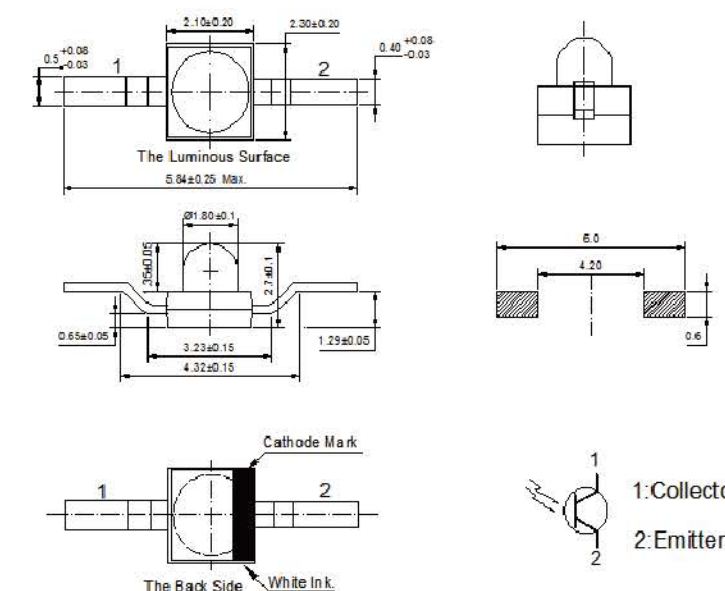


Part No.	Wavelength λ_d (nm)	Forward Current I_F (mA)	Radiant Intensity I_e (mW/sr)		Typ. Forward Voltage V_F (V)	Viewing Angle(°)
			Min.	Typ.		
L1801R1C-BKS-TR10	940 nm	20	3.0	5.0	1.4@ $I_F=20\text{mA}$ 1.6@ $I_F=100\text{mA}$	25

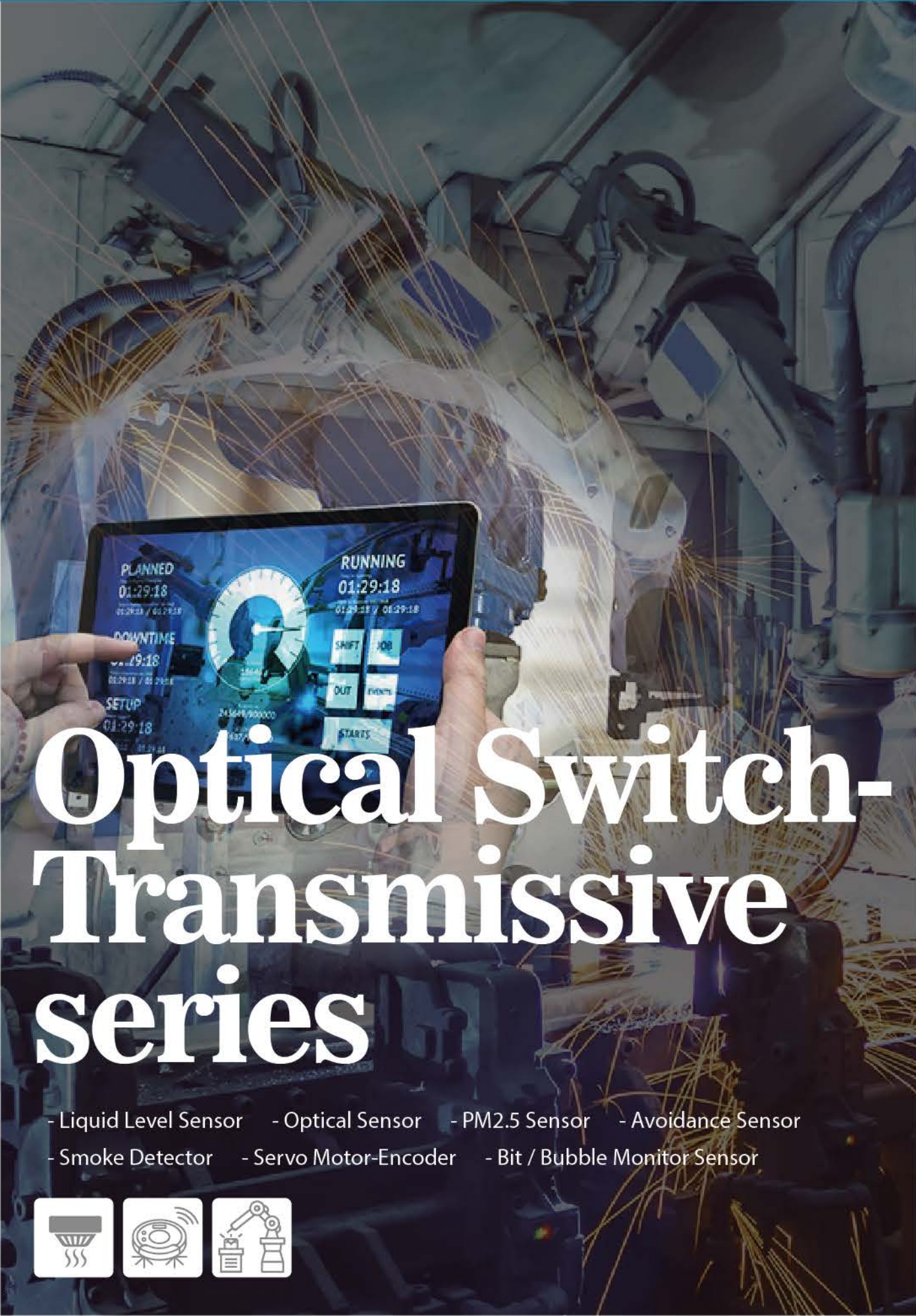
L180PT1DT



Outline Dimensions 3.2x1.6x2.6 mm



Part No.	Package	Light Current (mA)	Wavelength (nm)	Viewing Angle(°)
L180PT1DT-BKR-TR10	SMD	20	730 nm ~ 1100 nm	25

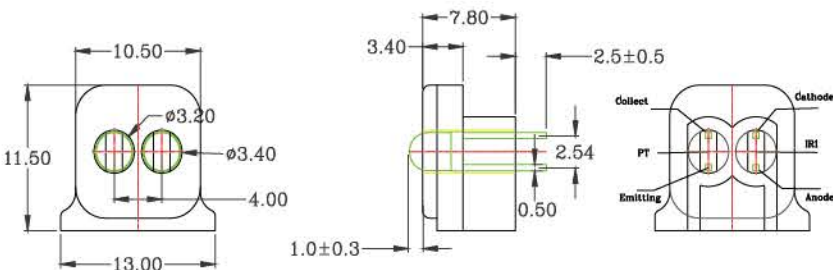


- Liquid Level Sensor
- Optical Sensor
- PM2.5 Sensor
- Avoidance Sensor
- Smoke Detector
- Servo Motor-Encoder
- Bit / Bubble Monitor Sensor



ITRH001

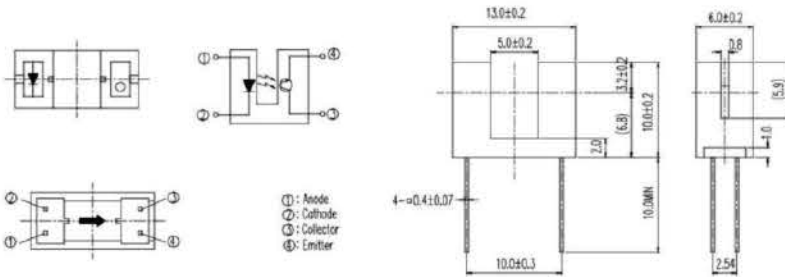
Outline Dimensions 13x11.5x7.8 mm



Part No.	Package	Input (Emitter)	Output (Detector)	Tr / Tf (μs)
ITRH001	DIP	45 mW	30 mA	25 / 25

ITR2005002

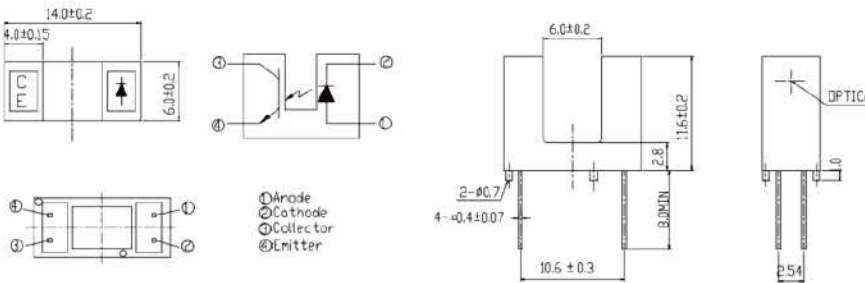
Outline Dimensions 20x13x6 mm



Part No.	Package	Input (Emitter)	Output (Detector)	Tr / Tf (μs)
ITR2005002	DIP	75 mW	75 mW	15 / 15

ITR2012001

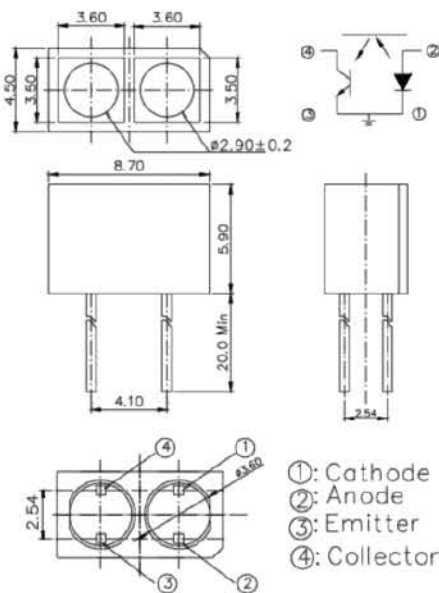
Outline Dimensions 19.6x14x6 mm



Part No.	Package	Input (Emitter)	Output (Detector)	Tr / Tf (μs)
ITR2012001	DIP	75 mW	75 mW	15 / 15

ITR2005003

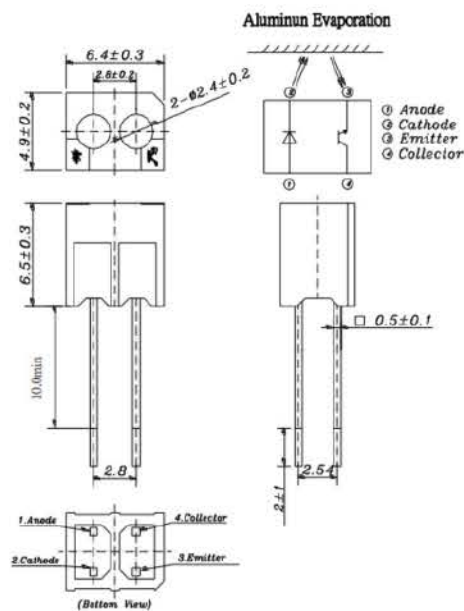
Outline Dimensions 8.7 x 3.5 x 25.9 mm



Part No.	Package	Input (Emitter)	Output (Detector)	Tr / Tf (μs)
ITR2005003	DIP	75 mW	75 mW	15 / 15

ITR2012002

Outline Dimensions 6.4 x 4.9 x 18.5 mm



Part No.	Package	Input Emitter	Output (Detector)	Tr / Tf (μs)
ITR2012002	DIP	75 mW	75 mW	15 / 15





Optical sensor-Ambient light sensor

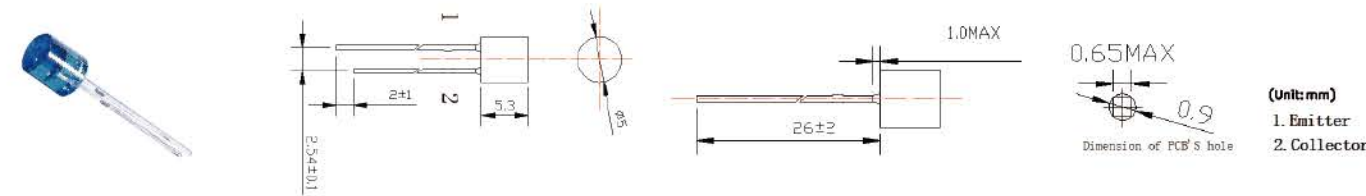
- Detection of ALS to Control IR LED

- Automatic contrast for light change



L5Q3IRT

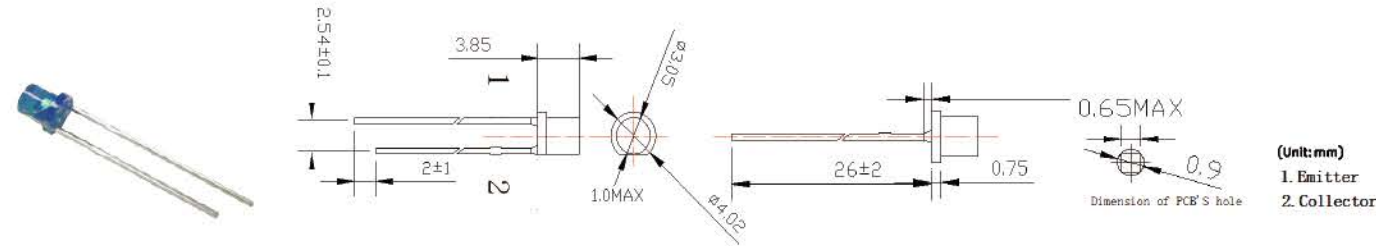
Outline Dimensions 5 mm



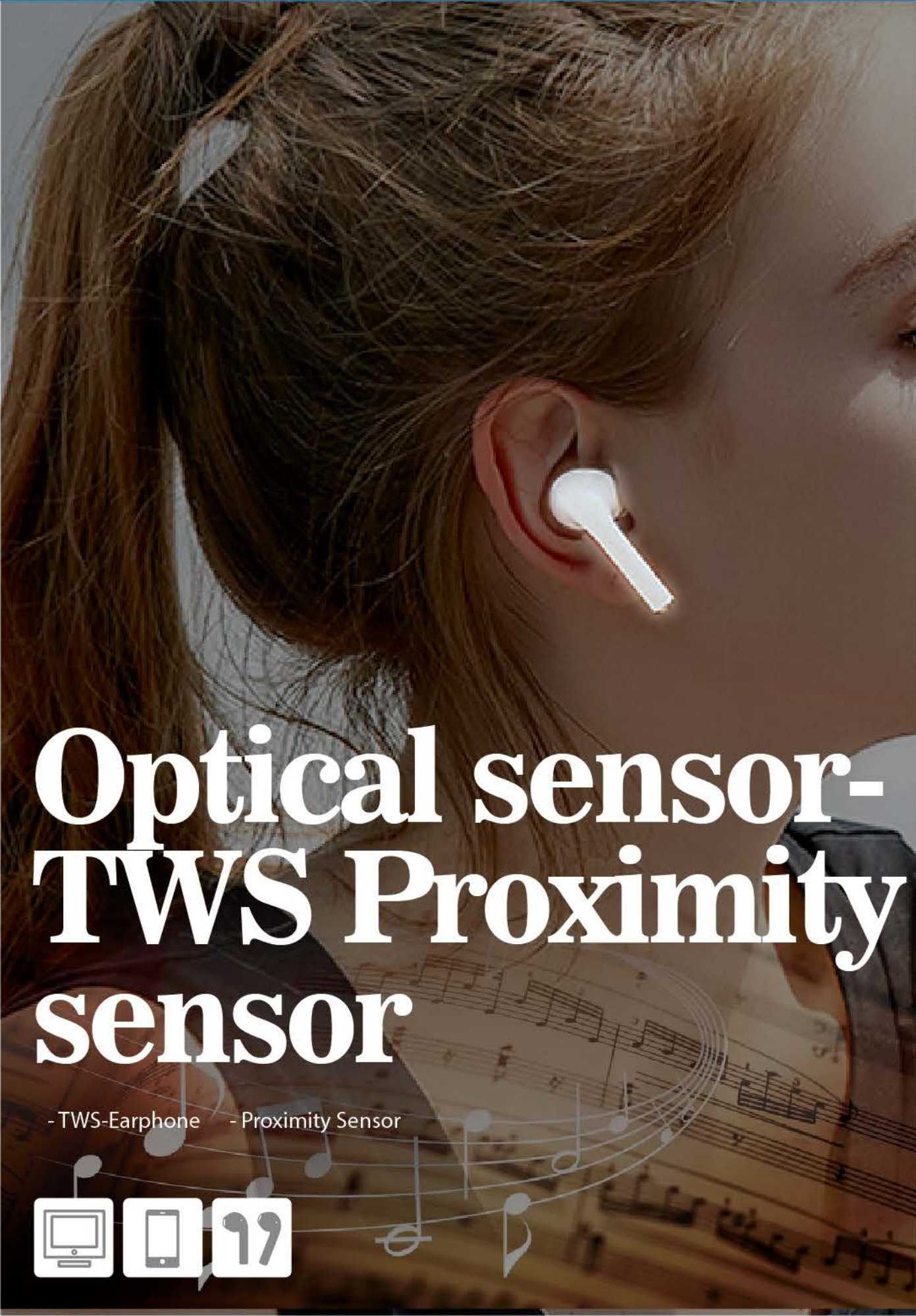
Part No.	Package	On State Collrctor Current (Ev=30Lux)	Wavelength(nm)	Viewing Angle(°)
L5Q3IRT-JNJ	DIP	15	550 nm	120

ITRH001

Outline Dimensions 4.02 mm



Part No.	Package	Radiant Intensity(mW/sr)	Wavelength(nm)	Viewing Angle(°)
L334IRT-JNJ	DIP	15	550 nm	120



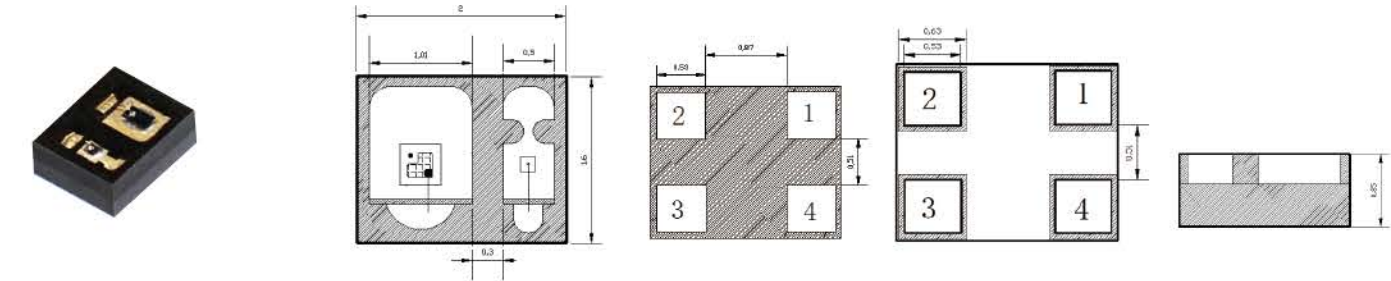
Optical sensor-TWS Proximity sensor

- TWS-Earphone - Proximity Sensor



LT2016IR1CT

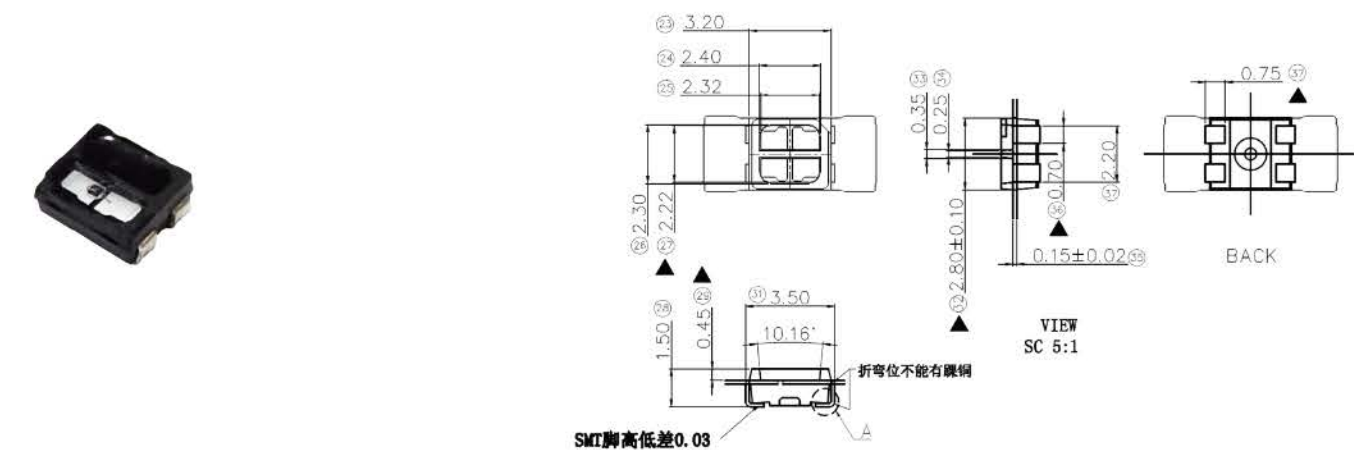
Outline Dimensions 2x1.6x0.85 mm



Part No.	Package	test condition (IF)	Radiant Intensity(mW)	Wavelength(nm)	Viewing Angle(°)
LT2016IR1CT-JNJ	SMD	10 mA	12	940 nm	120

ITR8307

Outline Dimensions 3.2x3.5x1.5 mm



Part No.	Package	Input (Emitter)	Output (Detector)	Tr / Tf (μs)
ITR8307	PLCC	75 mW	75 mW	20 / 20





Optical sensor-Pulse sensor

- Food

- Skin Moisture

- Gas Measurement

- Blood Oxygen

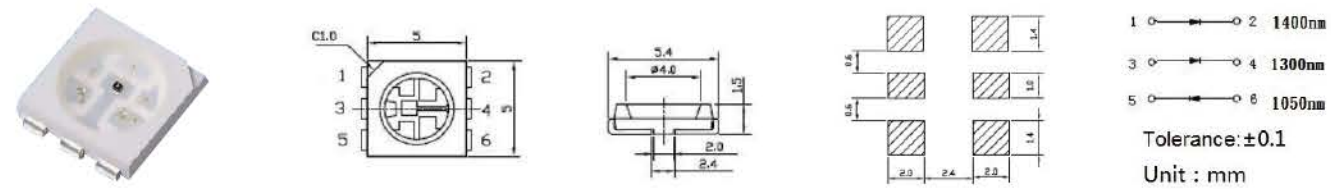
- Pulse Sensor





ITRH001

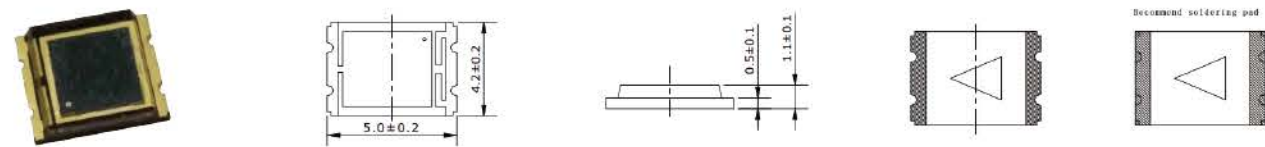
Outline Dimensions 5 x5.4x1.5 mm



Part No.	Package	test condition (IF)	Radiant Intensity(mW)	Wavelength(nm)	Viewing Angle(°)
LT69F3IN1CT-JNJ	PLCC	100 mA	33 / 34 / 25	1050nm / 1300nm / 1400nm	120

ITR2005002

Outline Dimensions 20x13x6 mm



Part No.	Package	Reverse Light Current (IL)	Wavelength(nm)	Viewing Angle(°)
LC5042PDC-ZGY	SMD	25	400 nm ~ 1100 nm	120

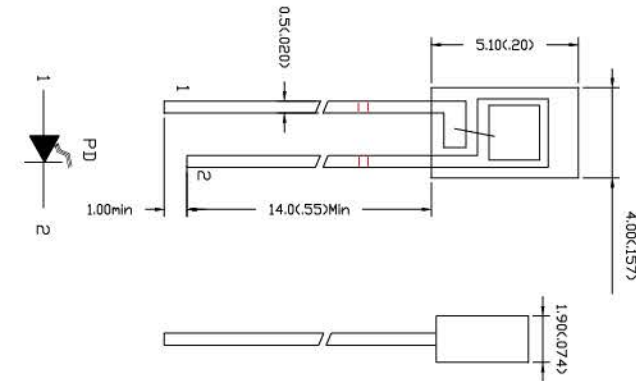




- Pulse oximeter

LSC1R9PD1C

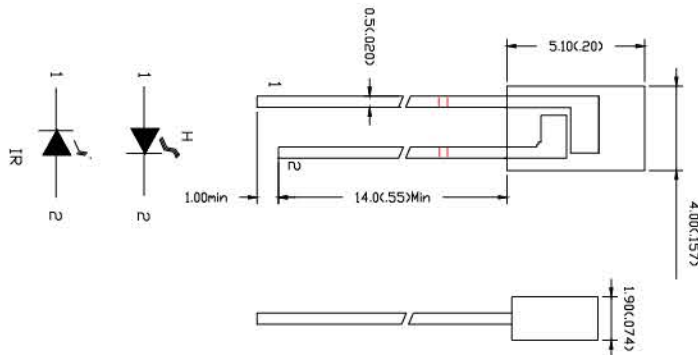
Outline Dimensions 20.1x4x1.9 mm



Lens Type	Reverse Breakdown BVR(V) E =0 _e mW/cm ² IR=100μA	Total Capacitance CT(pF) E _e =0mW/cm ² VR=3V F=1MHZ	Max. Collector Dark Current I _{CEO} (nA) @V _{CE} =10V; E _e =0 mW/cm ²	Max. Collector-Emitter Saturation Voltage V _{CE(S)} (V) @I _C =2mA; E _e =5mW/cm ²	Typ. On State Collector Current I _C (mA) @V _{CE} =5V; E _e =1mW/cm ²	Spectral Sensitivity Wavelength λ _p (nm)		
						Min.	Typ.	Max.
Water Clear	170	7.3	5	0.35	18	400		1100

LSC2HIRC

Outline Dimensions 13 x11.5x7.8 mm



Lens Type	Wavelength λ _d (nm)		Typ. Radiation Intensity I _e (mW/sr)		Typ. Forward Voltage V _F (V)		Forward Current I _F (mA)		Viewing Angle (deg.)
	R	IR	R	IR	R	IR	R	IR	
Water Clear	660 nm	905 nm	60	50	2.6	1.6	30	50	-



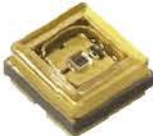
UVC series

- Ultraviolet disinfection - Phototherapy - Bio- Analysis / Detection
- General use



LT3535UVC

Outline Dimensions 3.5x3.5x1.6 mm



NEW

KPC



NEW

KPCA1



NEW

K1PC

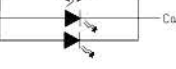


NEW

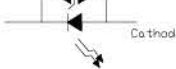
K1PCA1



Cathode



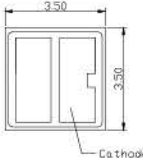
Cathode



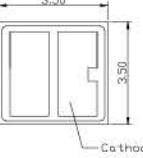
Cathode



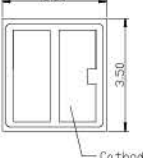
Cathode



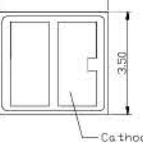
3.50
3.50
1.60



3.50
3.50
1.60



3.50
3.50
1.60



3.50
3.50
1.60



1.60



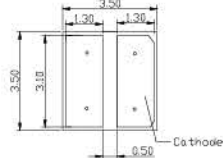
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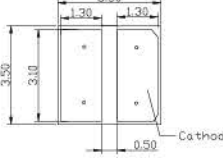
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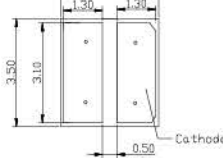
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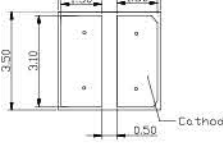
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1.30
0.50



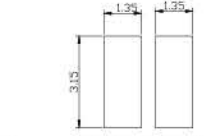
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1.30
1.30
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3.50
3.10
1.30
1.30
0.50



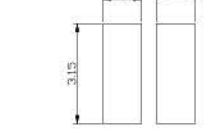
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3.10
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1.30
0.50



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1.35
1.35



3.15
1.35
1.35



3.15
1.35
1.35



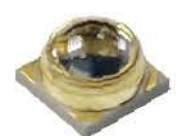
3.15
1.35
1.35

Recommended Pad Design Drawings

Part No.	Package	test condition (IF)	Radiant Intensity(mW)	Wavelength(nm)	Viewing Angle(°)
LT3535UVC-KPC	SMD	80 mA	9.2 mW	275 nm	120
LT3535UVC-KPCA1	SMD	150 mA	18.4 mW	275 nm	120
LT3535UVC-K1PC	SMD	40 mA	4 mW	275 nm	120
LT3535UVC-K1PCA1	SMD	80 mA	8 mW	275 nm	120

LT3535UVC

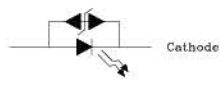
Outline Dimensions 3.75x3.75x2.85 mm



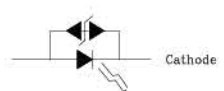
KCCM



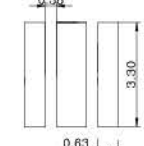
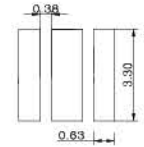
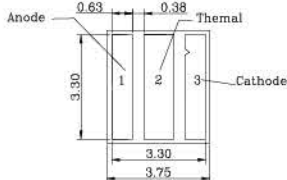
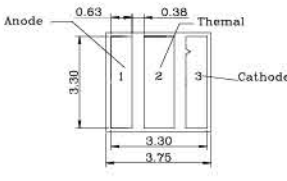
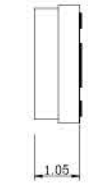
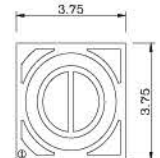
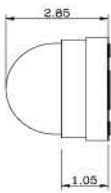
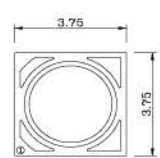
KPCM



Cathode



Cathode



Design Drawings

Recommended Pad Design Drawings

Part No.	Package	test condition (IF)	Radiant Intensity(mW)	Wavelength(nm)	Viewing Angle(°)
LT3535UVC-KCCM	SMD	100 mA	20 mW	275 nm	60
LT3535UVC-KPCM	SMD	100 mA	15 mW	275 nm	120

LT5050UVC

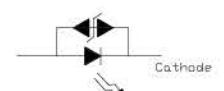
Outline Dimensions 5x5x1.7 mm



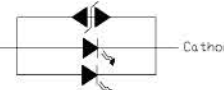
XPC



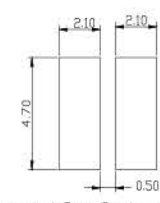
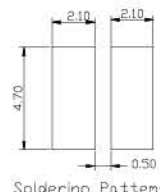
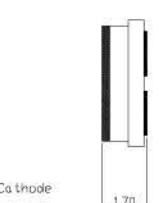
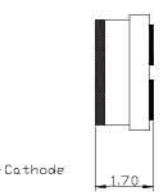
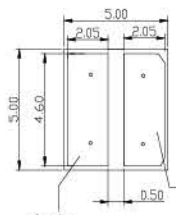
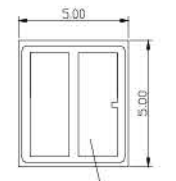
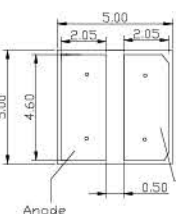
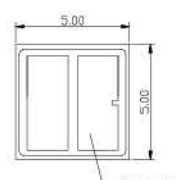
XPCA1



Cathode



Cathode



Design Drawings

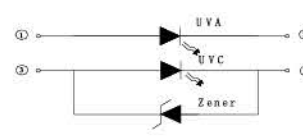
Recommended Pad Design Drawings

Part No.	Package	test condition (IF)	Radiant Intensity(mW)	Wavelength(nm)	Viewing Angle(°)
LT5050UVC-XPC	SMD	350 mA	28 mW	275 nm	120
LT5050UVC-XPCA1	SMD	600 mA	80 mW	275 nm	120

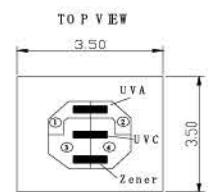
UVC+UVA

Outline Dimensions 3.5x3.5x1.65 mm



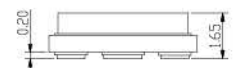


UVA
UVC
Zener



TOP VIEW

BOTTOM VIEW



Part No.	Package	Forward Current (IF)	Total Radiant Flux (mW)	Wavelength(nm)	Viewing Angle(°)
LT3535UVCA-K1PCG	SMD	40 mA / 150 mA	4.0 mW / 120 mW	280 nm / 410 nm	120





► Headquarters

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