

◆ABSOLUTE MAXIMUM RATING:(Ta=25°C)

Part No.	P <sub>D</sub> (mw)	V <sub>(BR)R</sub> (V)	T <sub>opr</sub>	T <sub>stg</sub>
L-31ROPT1XX	10	5	-35°C to 85°C	-35°C to 85°C
<b>PARAMETER</b>	<b>Power Dissipation</b>	<b>Reverse break down voltage</b>	<b>Operating Temperature Range</b>	<b>Storage Temperature Range</b>
<b>Lead Soldering Temperature {1.6mm(0.063 inch)From Body}250°C ±5°C For 3 Seconds</b>				

◆ELECTRO-OPTICAL CHARACTERISTICS:(Ta=25°C)

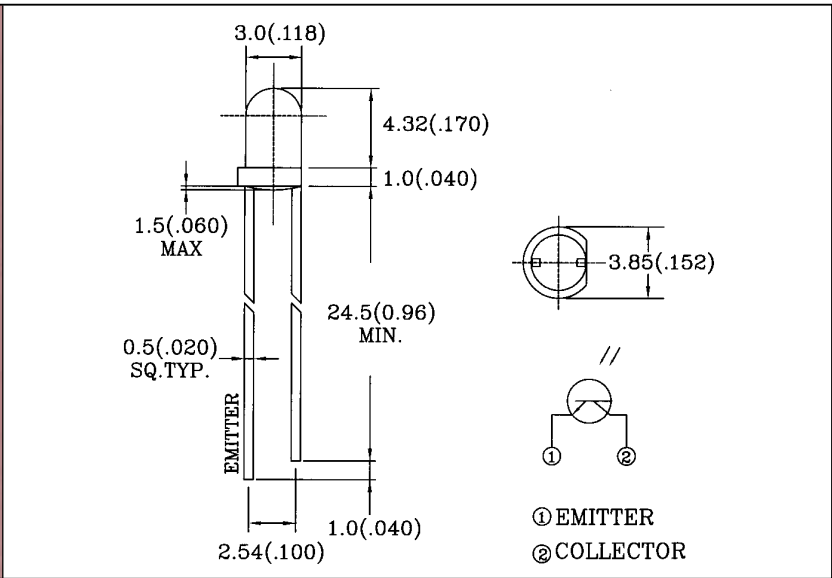
Part No.	BV <sub>CEO</sub> (V)			BV <sub>ECO</sub> (V)			I <sub>CEO</sub> (nA)			V <sub>CE(s)</sub> (V)			t <sub>r</sub> /t <sub>f</sub> (uS)			I <sub>c</sub> (mA)			C <sub>CB</sub> (pF)			λ (nm)		
	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	PEAK	MAX
L-31ROPT1C	30			5					100			0.4	15	15		0.9	1.8				6.4	400		1050
L-31ROPT1D1	30			5					100			0.4	15	15		0.8	1.6				6.4	900	940	
L-31ROPT1D2	30			5					100			0.4	15	15		0.8	1.6				6.4	800	870	
<b>TEST CONDITION</b>	I <sub>C</sub> =100uA E <sub>e</sub> =0mW/cm <sup>2</sup>			I <sub>E</sub> =100uA E <sub>e</sub> =0mW/cm <sup>2</sup>			V <sub>E</sub> =20V E <sub>e</sub> =0mW/cm <sup>2</sup>			I <sub>C</sub> =2mA E <sub>e</sub> =0.5mW/cm <sup>2</sup>			V <sub>CE</sub> =5V I <sub>C</sub> =1mA R <sub>L</sub> =1000Ω			V <sub>CE</sub> =5V E <sub>e</sub> =0.1mW/cm <sup>2</sup>			f=1MHZ V <sub>CB</sub> =3V E <sub>e</sub> =0mW/cm <sup>2</sup>					
<b>PARAMETER</b>	COLLECTOR-EMITTER BREAKDOWN VOLTAGE			EMITTER-COLLECTOR BREAKDOWN VOLTAGE			COLLECTOR DARK CURRENT			COLLECTOR-EMITTER SATURATION VOLTAGE			RISE/FALL TIME			ON STATE COLLECTOR CURRENT			COLLECTOR -BASE CAPACITANCE			SPECTRAL SENSITIVITY WAVELENGTH		

D1,D2=BLACK

1.All dimension are in millimeters (inches).

2.Tolerance is ± 0.25 mm (0.01") unless otherwise specified.

**L-32XOPT1XX 3.0mm PHOTOTRANSISTOR**



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L-32XOPT1XX	10	5	-35°C to 85°C	-35°C to 85°C
<b>PARAMETER</b>	<b>Power Dissipation</b>	<b>Reverse Voltage</b>	<b>Operating Temperature Range</b>	<b>Storage Temperature Range</b>
<b>Lead Soldering Temperature {1.6mm(0.063 inch)From Body}250°C ±5°C For 3 Seconds</b>				

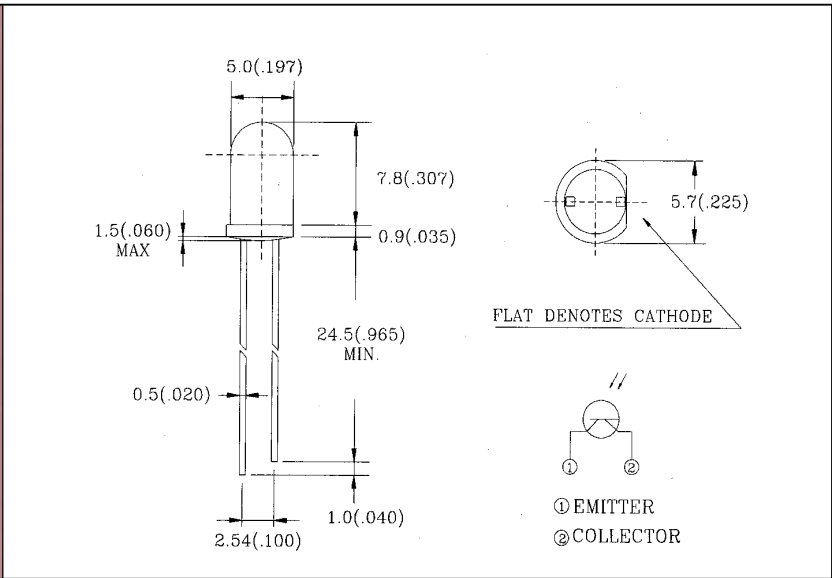
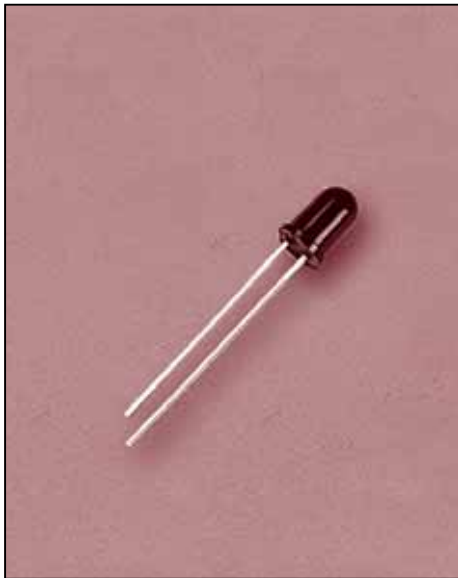
**◆ELECTRO-OPTICAL CHARACTERISTICS:(Ta=25°C)**

Part No.	BV <sub>CEO</sub> (V)			BV <sub>ECO</sub> (V)			I <sub>CEO</sub> (nA)			V <sub>CE</sub> (s)(V)			t <sub>r</sub> /t <sub>f</sub> (uS)			I <sub>c</sub> (mA)			Δλ (nm)		
	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX
L-32ROPT1D1	30			5					100			0.4		15/15		0.2	0.6		900	940	
L-32AOPT1D1	30			5					100			0.4		15/15		0.6	1.0		900	940	
<b>TEST CONDITION</b>	I <sub>C</sub> =100uA E <sub>e</sub> =0mW/cm <sup>2</sup>			I <sub>E</sub> =100uA E <sub>e</sub> =0mW/cm <sup>2</sup>			V <sub>E</sub> =20V E <sub>e</sub> =0mW/cm <sup>2</sup>			I <sub>C</sub> =2mA E <sub>e</sub> =0.5mW/cm <sup>2</sup>			V <sub>CE</sub> =5V I <sub>C</sub> =1mA R <sub>L</sub> =1000Ω			V <sub>CE</sub> =5V E <sub>e</sub> =0.1mW/cm <sup>2</sup>					
<b>PARAMETER</b>	COLLECTOR-EMITTER BREAKDOWN VOLTAGE			EMITTER-COLLECTOR BREAKDOWN VOLTAGE			COLLECTOR DARK CURRENT			COLLECTOR-EMITTER SATURATION VOLTAGE			RISE/FALL TIME			ON STATE COLLECTOR CURRENT			SPECTRAL SENSITIVITY WAVELENGTH		

D1,D2=BLACK

1.All dimension are in millimeters(inches).

2.Tolerance is ±0.25mm(0.01")unless otherwise specified.



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Part No.	P <sub>D</sub> (mw)	V <sub>(BR)R</sub> (V)	T <sub>opr</sub>	T <sub>stg</sub>
L-51ROPT1XX	10	5	-35°C to 85°C	-35°C to 85°C
<b>PARAMETER</b>	<b>Power Dissipation</b>	<b>Reverse break down voltage</b>	<b>Operating Temperature Range</b>	<b>Storage Temperature Range</b>
<b>Lead Soldering Temperature {1.6mm(0.063 inch)From Body}250°C ±5°C For 3 Seconds</b>				

◆ELECTRO-OPTICAL CHARACTERISTICS:(Ta=25°C)

Part No.	BV <sub>CEO</sub> (V)			BV <sub>ECO</sub> (V)			I <sub>CEO</sub> (nA)			V <sub>CE(s)</sub> (V)			t <sub>r</sub> /t <sub>f</sub> (uS)			I <sub>c</sub> (mA)			C <sub>CB</sub> (pF)			λ (nm)		
	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	PEAK	MAX
L-51ROPT1C	30			5					100			0.4	15	15		1.8	2.4				6.4	400		1050
L-51ROPT1D1	30			5					100			0.4	15	15		1.7	2.2				6.4	900	940	
L-51ROPT1D2	30			5					100			0.4	15	15		1.7	2.2				6.4	800	870	
<b>TEST CONDITION</b>	I <sub>C</sub> =100uA E <sub>e</sub> =0mW/cm <sup>2</sup>			I <sub>E</sub> =100uA E <sub>e</sub> =0mW/cm <sup>2</sup>			V <sub>E</sub> =20V E <sub>e</sub> =0mW/cm <sup>2</sup>			I <sub>C</sub> =2mA E <sub>e</sub> =0.5mW/cm <sup>2</sup>			V <sub>CE</sub> =5V I <sub>C</sub> =1mA R <sub>L</sub> =1000Ω			V <sub>CE</sub> =5V E <sub>e</sub> =0.1mW/cm <sup>2</sup>			f=1MHZ V <sub>CB</sub> =3V E <sub>e</sub> =0mW/cm <sup>2</sup>					
<b>PARAMETER</b>	COLLECTOR-EMITTER BREAKDOWN VOLTAGE			EMITTER-COLLECTOR BREAKDOWN VOLTAGE			COLLECTOR DARK CURRENT			COLLECTOR-EMITTER SATURATION VOLTAGE			RISE/FALL TIME			ON STATE COLLECTOR CURRENT			COLLECTOR -BASE CAPACITANCE			SPECTRAL SENSITIVITY WAVELENGTH		

D1,D2=BLACK

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