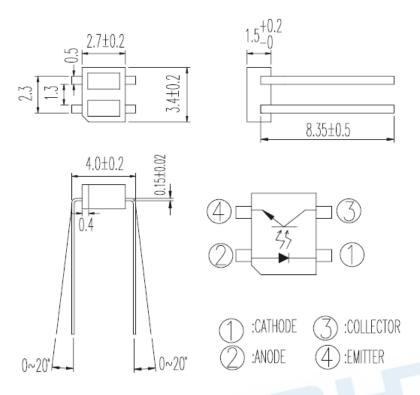
Package Dimensions



• Notes:

- 1. All dimensions are in millimeters
- 2. Tolerances unless dimensions ± 0.15 mm

Absolute Maximum Ratings (Ta=25°C)

	Parameter	Symbol	Ratings	Unit
Input	Power Dissipation at(or below) 25 °C Free Air Temperature	Pd	75	mW
	Reverse Voltage	VR	5	V
	Forward Current	${ m I}_{ m F}$	50	mA
	Peak Forward Current (*1)	${ m I}_{ m FP}$	1	A
Output	Collector Power Dissipation	Pc	75	mW
	Collector Current	Ic	50	mA
	Collector-Emitter Voltage	B Vceo	30	V
	Emitter-Collector Voltage	B Veco	5	V
Operating	g Temperature	Topr -25~+85		$^{\circ}\!\mathbb{C}$
Storage T	'emperature	Tstg	-30~+100	$^{\circ}\!\mathbb{C}$
Lead Solo	lering Temperature (*2)	Tsol	Tsol 260	

• Notes:

- (*1) tw=100 μ sec., T=10 msec.
- (*2) t=5 Sec

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Electro-Optical Characteristics (Ta=25°C)

Parameter Parameter		Symbol	Min.	Тур.	Max.	Unit	Conditions		
	Forward Voltage	V_{F}	_	1.2	1.6	V	I _F =20mA		
Input	Reverse Current	I_R	_	_	10	μΑ	V _R =6V		
	Peak Wavelength	$\lambda_{ ext{P}}$	_	940	_	nm	I _F =20mA		
Output	Dark Current	I_{CEO}	_	_	100	nA	$V_{CE}=10 \text{ V},$ $Ee=0 \text{ mW/cm}^2$		
	Collect Current	$I_{C}(ON)$	0.1	_	_	mA	V_{CE} =5 V I_{F} =20 mA		
Transfer	Leakage Current	I_{CEOD}	_	_	1	nA	V_{CE} =5 V I_{F} =20 mA		
Characteristics	Rise time	tr	_	20	-	μs	$V_{\text{CE}}\!\!=\!\!2\text{V},$ $I_{\text{C}}\!\!=\!\!0.1\text{mA},$ $RL\!\!=\!\!1\text{k}\Omega,$ $d\!\!=\!\!1\text{mm}$		
	Rise time	tf		20	-	μs			
EVERLIE									

Typical Electrical/Optical/Characteristics Curves for IR

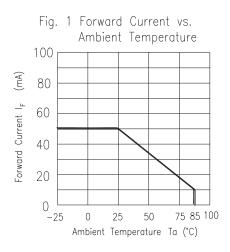


Fig. 3 Peak Emission Wavelength vs. Ambient Temperature

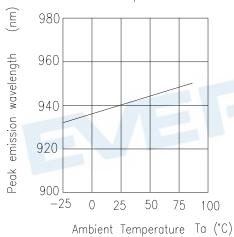


Fig. 5 Forward Voltage vs.
Ambient Temperature

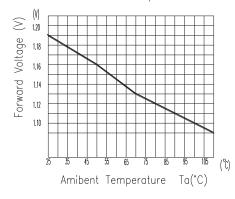


Fig. 2 Spectral Distribution

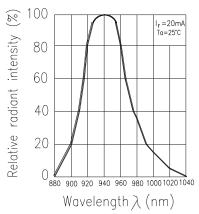


Fig. 4 Forward Current vs. Forward Voltage

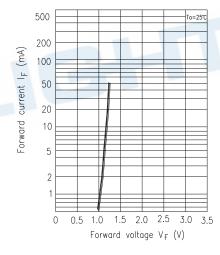
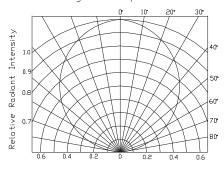


Fig. 6 Relative Radiant Intensity vs.
Angular Displacement





Typical Electrical/Optical/Characteristics Curves for PT

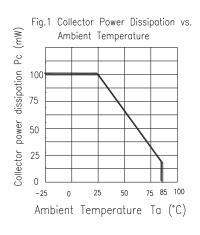


Fig. 3 Relative Collector Current vs. Ambient Temperature

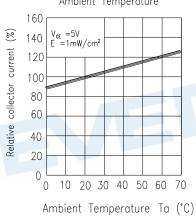


Fig.5 Spectral Sensitivity

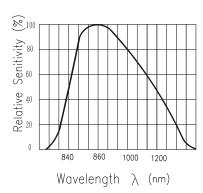
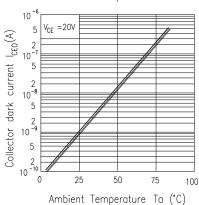


Fig.2 Collector Dark Current vs. Ambient Temperature



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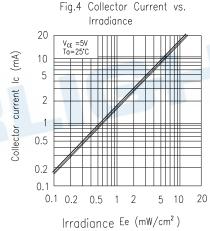
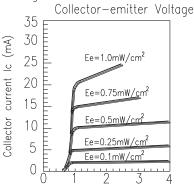


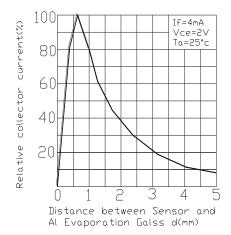
Fig.6 Collector Current vs.



Collector-emitter Voltage V cE (V)

Typical Electrical/Optical/Characteristics Curves for ITR

Fig.1 Relative Collector Current vs.
Distance between Sensor and
Al Evaporation Galss



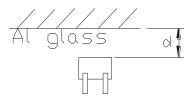
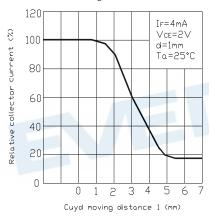


Fig.2 Relative Collector Current vs. Card Moving Distance (1)



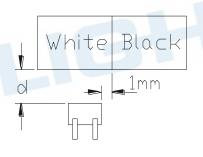
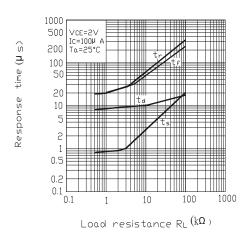
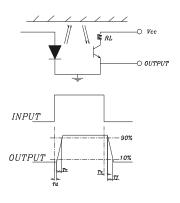


Fig.3 Response Time vs. Load Resistance







Packing Quantity Specification

- 1. 160 Pcs/Per Tube
- 2. 18 Tubes / Inner Carton
- 3. 12 Inner Cartons / Outside Carton

Label Form Specification



CPN: Customer's Production Number

P/N: Production Number QTY: Packing Quantity

CAT: Ranks

HUE: Peak Wavelength

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

DISCLAIMER

- 1. EVERLIGHT reserves the right(s) on the adjustment of product material mix for the specification.
- 2. The product meets EVERLIGHT published specification for a period of twelve (12) months from date of shipment.
- 3. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
- 4. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from the use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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