Device Selection Guide

Device No.	Chip Material	Lens Color
IR	GaAlAs	Water clear
PT	Silicon	Water clear

Absolute Maximum Ratings (Ta=25℃)

Parameter		Symbol	Ratings	Unit
Input	Power Dissipation at(or below) 25℃Free Air Temperature	Pd	75	mW
	Reverse Voltage	V_R	5	V
	Forward Current	I_F	30	mA
	Peak Forward Current (*1) Pulse width ≦100μs, Duty cycle=1%	I_{FP}	1	A
Output	Collector Power Dissipation	P_C	75	mW
	Collector Current	I_C	20	mA
	Collector-Emitter Voltage	B V_{CEO}	35	V
	Emitter-Collector Voltage	B V_{ECO}	5	V
Operating Temperature		Topr	-30~+85	℃
Storage Temperature		Tstg	-40~+100	℃
Lead Soldering Temperature (*2) (1/16 inch form body for 5 seconds)		Tsol	260	℃

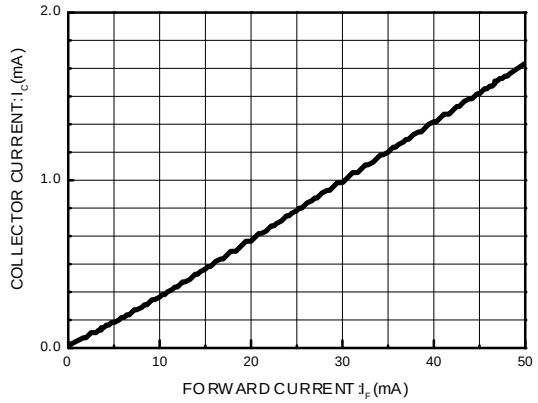
Notes: (＊1) tw=100 μsec. , T=10 msec. (＊2) t=10 Sec

Electro-Optical Characteristics (Ta=25℃)

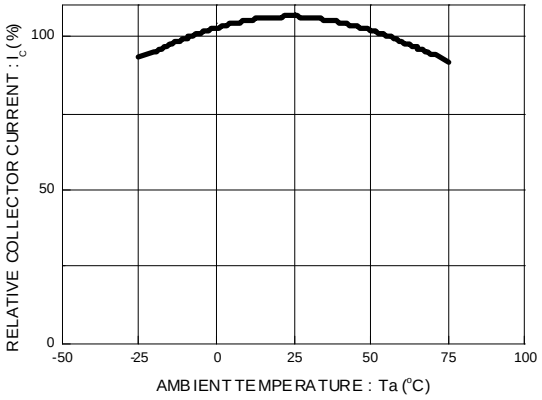
Parameter		Symbol	Min.	Typ.	Max.	Unit	Conditions
Input	Forward Voltage	V_F	1.00	1.18	1.4	V	I_F=10mA
	Reverse Current	I_R	---	---	10	μA	V_R=5V
	Peak Wavelength	λ_P	---	940	---	nm	I_F=10mA
Output	Dark C urrent	I_{CEO}	---	---	100	nA	V_{CE}=25V
	C-E Saturation Voltage	V_{CE}(sat)	---	---	0.4	V	I_C=0.25mA I_F=20mA
Transfer Characteristics	Collect Current	I_C(ON)	0.25	---	1.0	mA	V_{CE}=5V I_F=10mA
		I_C(OFF)	---	---	20	μA	
	Rise time	t_r	---	15	50	μsec	V_{CE}=5V I_C=1mA R_L=1KΩ
	Fall time	t_f	---	15	50	μsec	

Typical Electrical/Optical/Characteristics Curves for ITR

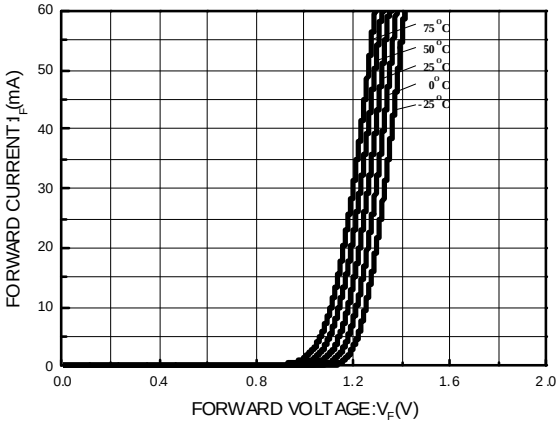
Collector current vs. forward current.



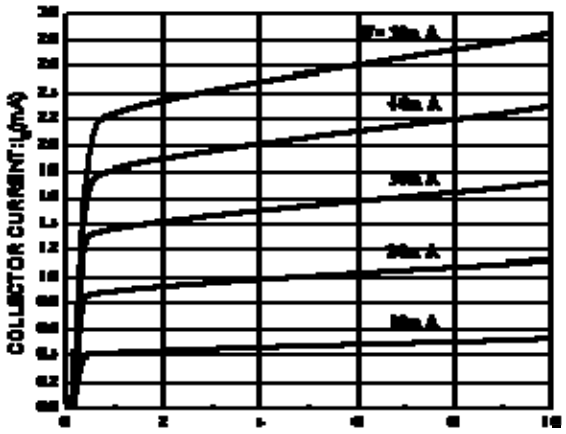
Relative output vs. ambient temperture



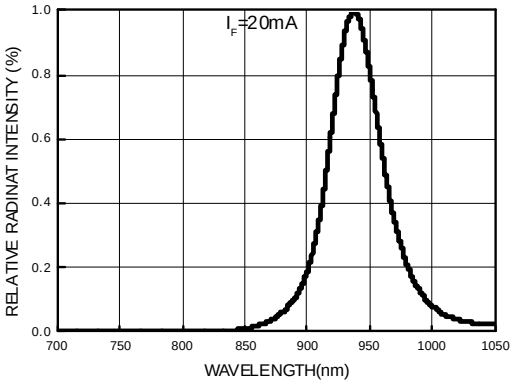
Forward current vs. forward voltage



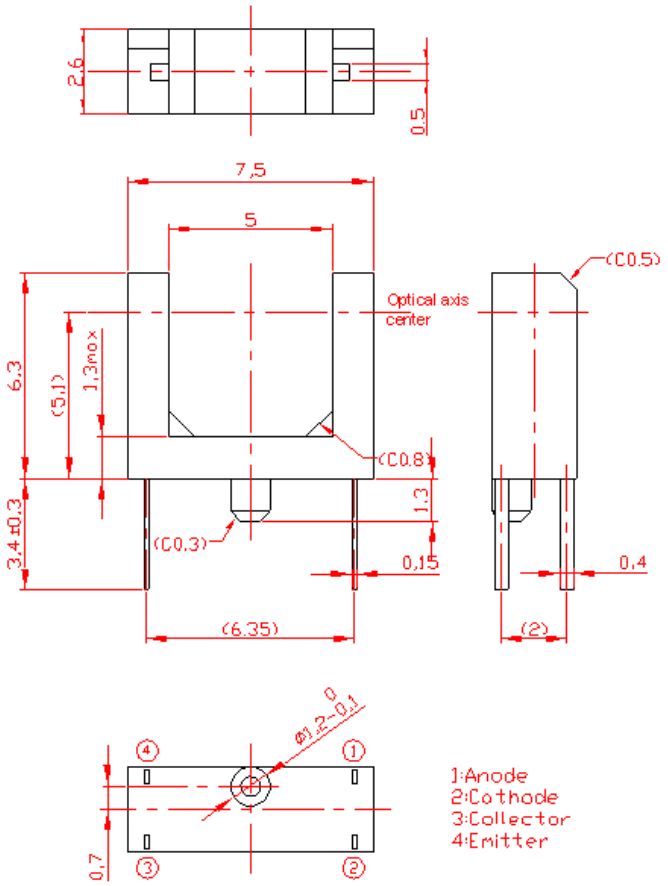
Output characteristics



Spectral Distribution



Package Dimension



Notes:

1.All dimensions are in millimeters
2.Tolerances unless dimensions ±0.2mm
3.Lead spacing is measured where the lead emerge from the package
4.Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification
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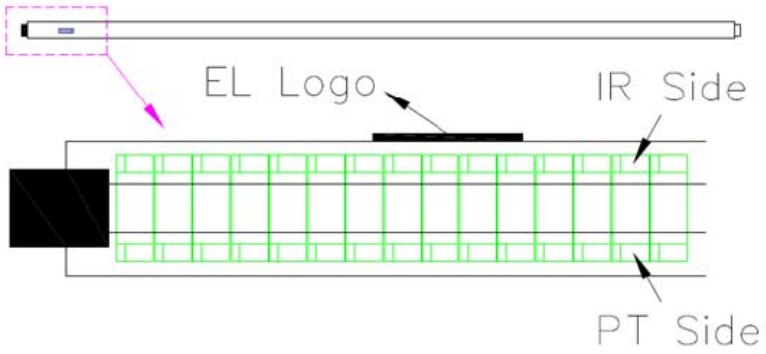
6.When using this product , please observe the absolute maximum ratings and the instructions for use outlined in these specification sheets. EVERIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.

Packing Spec.:



Packing Quantity Specification

1. 180pcs/1 Tube
2. 30Tube(5.4Kpcs)/1 Box
3. 12Boxes(64.8Kpcs)/1Carton

Label Form Specification

- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Dom. Wavelength Rank
- REF: Forward Voltage Rank
- LOT No: Lot Number
- X: Month
- Reference: Identify Label Number

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