

Device Selection Guide

Device No.	Chip Material	LENS COLOR		
IR	GaAs	Water Clear		
PT	Silicon	Water Clear		

Absolute Maximum Ratings (Ta=25℃)

	Parameter	Symbol	Ratings	Unit
Input	Power Dissipation at(or below) 25°C Free Air Temperature	Pd	75	mW
	Reverse Voltage	V_R	5	V
	Forward Current	I_{F}	50	mA
	Peak Forward Current (*1) Pulse width ≤100µ s, Duty cycle=1%	${ m I}_{ m FP}$	1	A
Output	Collector Power Dissipation	P_{C}	75	mW
	Collector Current	$I_{\rm C}$	50	mA
	Collector-Emitter Voltage	B V _{CEO}	30	V
	Emitter-Collector Voltage	$B V_{ECO}$	5	V
Operating Temperature		Topr	-25~+85	$^{\circ}\!\mathbb{C}$
Storage Temperature		Tstg	-30~+90	$^{\circ}\mathbb{C}$
	ering Temperature (*2) form body for 5 seconds)	Tsol	260	$^{\circ}\!\mathbb{C}$

(*1) $tw=100 \mu sec.$, T=10 msec. (*2) t=5 Sec



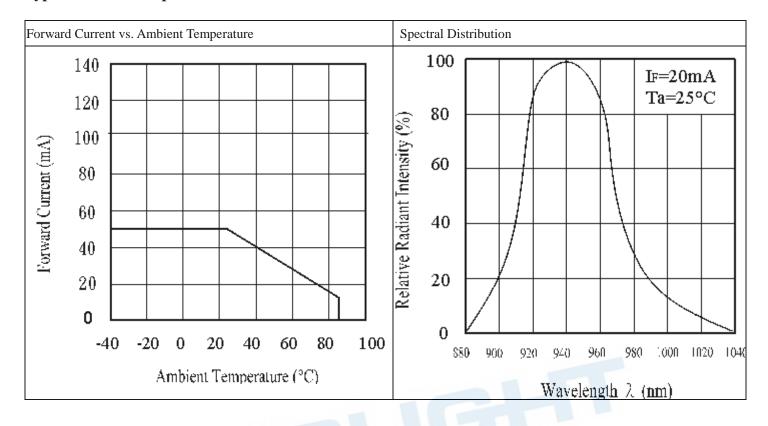
Electro-Optical Characteristics (Ta=25°C)

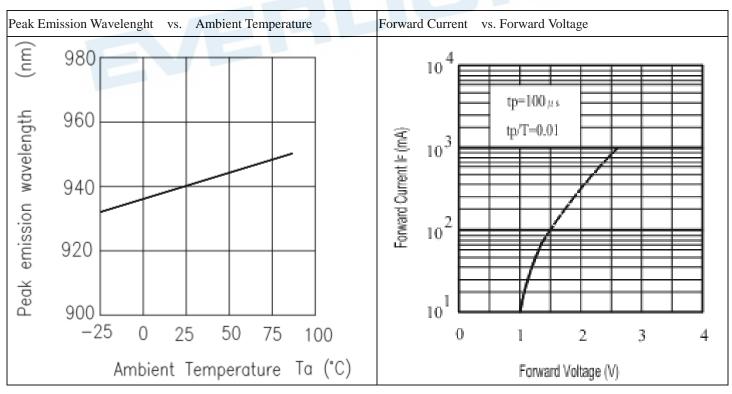
Parameter		Symbol	Min.	Тур.	Max.	Unit	Conditions
Input	Forward Voltage	V_{F}		1.2	1.6	V	I _F =20mA
	Reverse Current	I_R			10	μА	$V_R=5V$
	Peak Wavelength	λ _P		940		nm	I _F =20mA
	View Angle	2θ1/2		30		Deg	$I_F=20mA$
Output	Dark Current	I_{CEO}			100	nA	$V_{CE}=10V$
	C-E Saturation Voltage	V _{CE} (sat)			0.4	V	I_{C} =2mA Ee=1mW/cm ²
Transfer Characteristics	Collect Current	I _C (ON)	0.1			mA	V _{CE} =5V I _F =20mA
	Rise time	t _r		20		µ sec	$V_{CE}=2V$ $I_{C}=100\mu A$
	Fall time	t_{f}		20		µ sec	$R_L=1K\Omega$

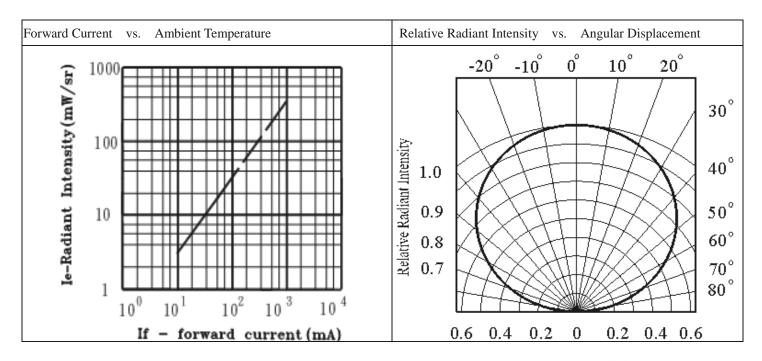




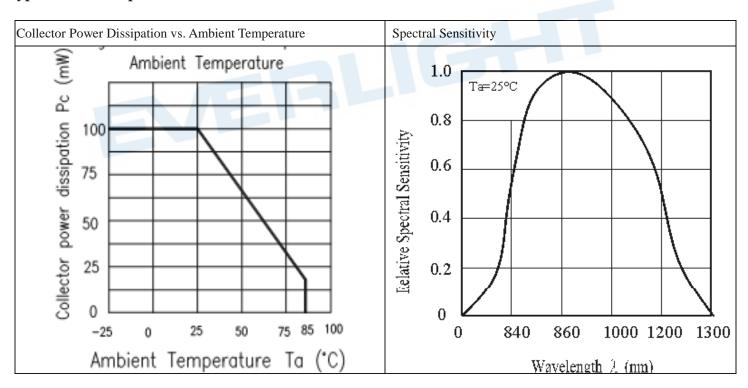
Typical Electrical/Optical/Characteristics Curves for IR

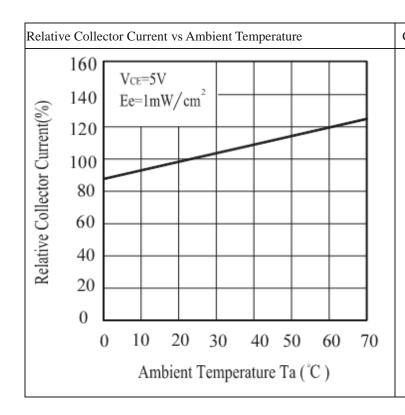


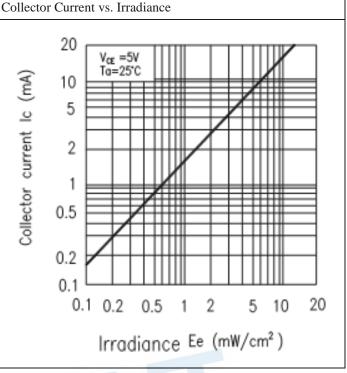


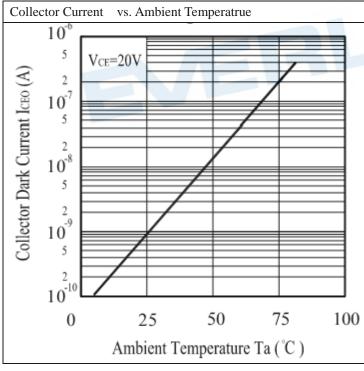


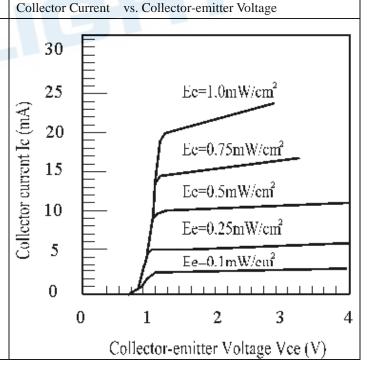
Typical Electro/Optical/Characteristics Curves for PT





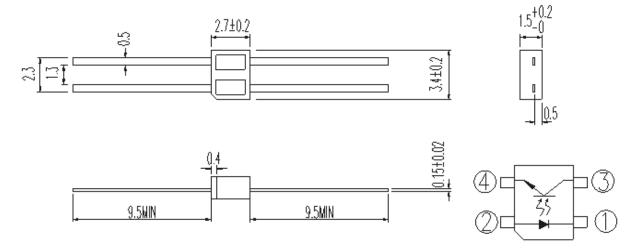








Package Dimension



:CATHODE :COLLECTOR :COLLECTOR :ANODE :EMITTER

Notes: 1.All dimensions are in millimeters

2. Tolerances unless dimensions ±0.25mm

Packing Quantity Specification

- 1. 1000pcs/1Bag
- 2. 1Bag/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



DISCLAIMER

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