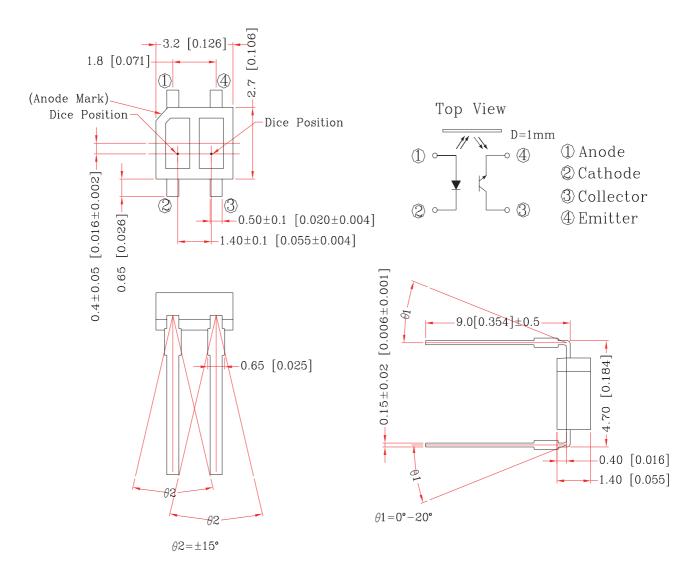
Features:

- * Non-contact switching.
- * For direct pc board or dual-in-line socket mounting.
- * Fast switching speed.

*This product doesn't contain restriction substance, comply RoHS standard. Package Dimensions



Notes:

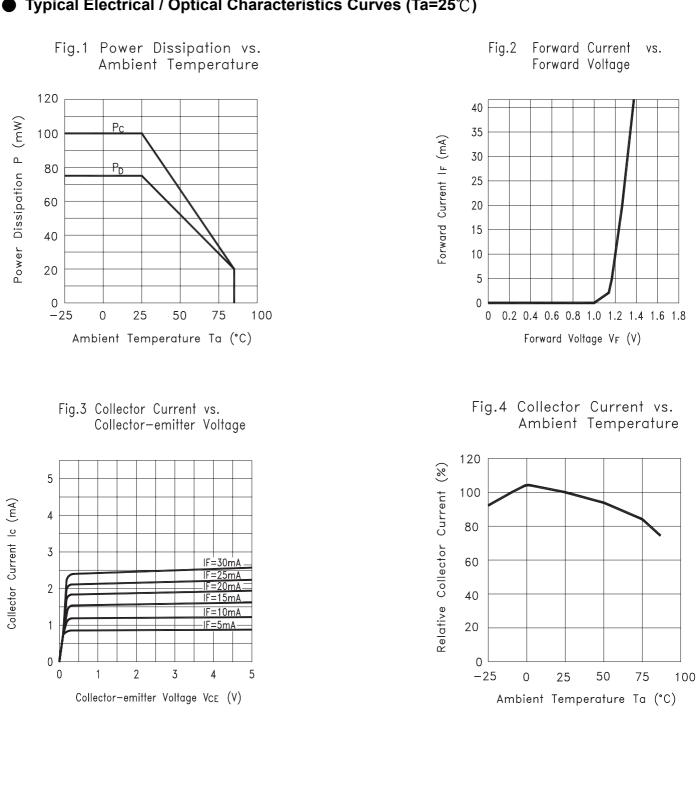
- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm unless otherwise specified.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

	Item	Symbol	Rating	Unit	
	Power Dissipation	Pd	75	mW	
lagut	Reverse Voltage	V _R	5	V	
Input	Forward Current	I _F	50	mA	
	Peak Forward Current (*1)	IF 50 IFP 1 PC 100 IC 20	А		
	Collector Power Dissipation	Pc	P _c 100		
Output	Collector Current	Ι _C	20	mA	
Output	C-E Voltage	V _{CEO}	30	V	
	E-C Voltage		V		
Operating ⁻	Temperature	Topr	-40 ~ +85	°C	
Storage Temperature		Tstg	-40 ~ +100	°C	
Soldering Temperature (*2)		Tsol	260	°C	

(*2) t=3 Sec

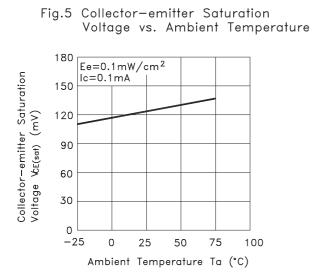
● Electrical Optical Characteristics (Ta=25℃)

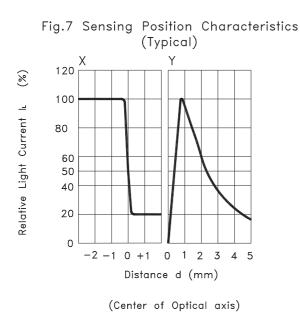
Parameter		Symbol	Condition	Min.	Тур.	Max.	Unit	BIN No.
Input	Forward Voltage	V _F	I _F =20mA		1.2	1.5	V	
	Reverse Current	I _R	V _R =5V			100	μA	
	Peak Wavelength	λp	I _F =10mA		940		nm	
Output	Dark Current	I _D	V _{CE} =10V			200	nA	
	C-E Saturation Voltage	V _{CE(sat)}	I _c =0.25mA I _F =10mA			0.4	V	
Light Current		IL	V _{CE} =5V I _F =10mA D=1.0mm (90% Reflective white paper)	80	—	240	μA	BIN A
				160		480		BIN B
				320		960		BIN C
				640		1920		BIN D
				1280		3840		BIN E
Speed -	Rise Time	Tr	I _{FP} =20mA V _{CE} =5V R _L =1000 Ω		20		μ sec	
	Fall Time	Tf			20	_	μ sec	



● Typical Electrical / Optical Characteristics Curves (Ta=25°C)







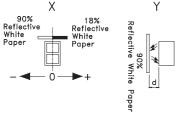
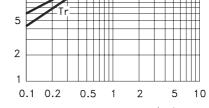


Fig.6 Response Time vs. Load Resistance

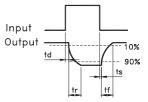
Response Time (us)



Load Resistance $R_L(k_{\Omega})$

Test Circuit for Response Time

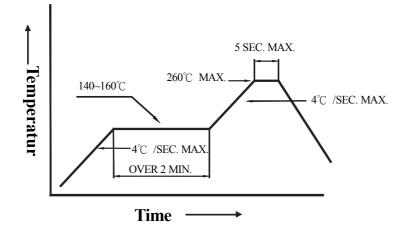
Reflective White Paper Input OVcc Ro Ro RL RL



Soldering :

1. Manual Of Soldering The temperature of the iron tip should not be higher than 350°C and Soldering within 3 seconds per solder-land is to be observed.

 Reflow Soldering Preheating : 140°C ~160°C ±5°C, within 2 minutes. Operation heating : 260°C (Max.) within 5 seconds.(Max) Gradual Cooling (Avoid quenching).



Handling :

Care must be taken not to cause to the epoxy resin portion of LEDs while it is exposed to high temperature.

Care must be taken not rub the epoxy resin portion of LEDs with hard or sharp article such as the sand blast and the metal hook.

Notes for designing:

Care must be taken to provide the current limiting resistor in the circuit so as to drive the LEDs within the rated figures. Also, caution should be taken not to overload LEDs with instantaneous voltage at the turning ON and OFF of the circuit.

When using the pulse drive care must be taken to keep the average current within the rated figures. Also, the circuit should be designed so as be subjected to reverse voltage when turning off the LEDs.

Storage:

In order to avoid the absorption of moisture, it is recommended to solder LEDs as soon as possible after unpacking the sealed envelope.

If the envelope is still packed, to store it in the environment as following:

- (1) Temperature : 5° C 30° C (41° F)Humidity : RH 60% Max.
- (2) After this bag is opened, devices that will be applied to infrared reflow, vapor-phase reflow, or equivalent soldering process must be:
- a. Completed within 168 hours.
- b. Stored at less than 30% RH.
- (3) Devices require baking before mounting, if:(2) a or (2) b is not met.
- (4) If baking is required, devices must be baked under below conditions: 48 hours at $60^{\circ}C \pm 3^{\circ}C$.