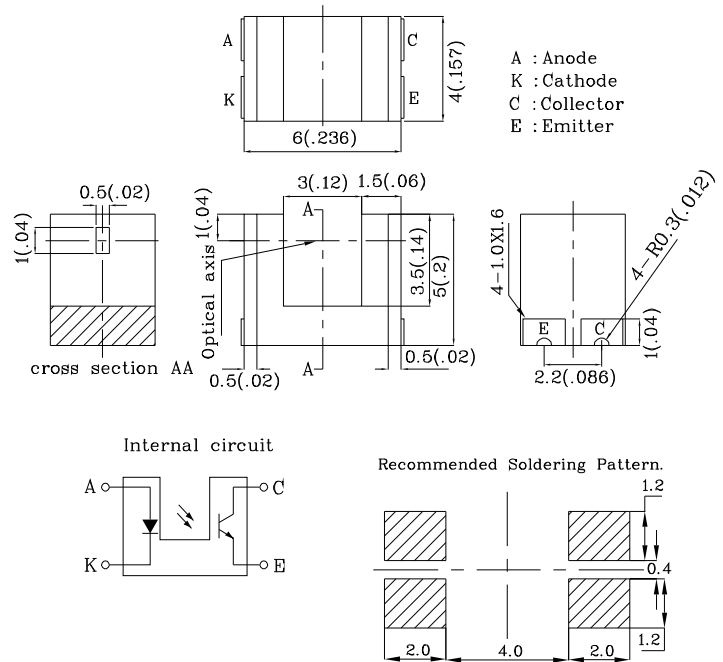


*Features

1. ULTRA-COMPACT WITH A 6.0MM WIDTH PHOTOINTERRUPTER AND 3MM WIDTH SLOT.
2. PCB SURFACE MOUNTING TYPE.
3. HIGH RESOLUTION WITH A 0.5MM WIDTH APERTURE.
4. RoHS COMPLIANT.

*Dimensions

Note: All units are in millimeters unless otherwise indicated.



*Absolute Maximum Ratings (TA=25°C)

Parameter		Symbol	Rating	Unit
Input	Forward current[1]	IF	25	mA
	Reverse voltage	VR	5	V
	Power dissipation	Pd	35	mW
	Peak Forward Current (Pulse Width ≤ 100μS, Duty Cycle=1%)	IFP	1	A
Output	Collector-emitter voltage	VCEO	20	V
	Emitter-collector voltage	VECO	5	V
	Collector current	IC	20	mA
	Collector power dissipation	PC	75	mW
Operating temperature		Topr	-35~+85	°C
Storage temperature		Tstg	-40~+90	°C
Reflow soldering[2]		Tsol	240	°C
Manual soldering[2]		Tsol	300	°C

Notes:

1. Refer to the temperature rating chart if the ambient temperature exceeds 25°C.
2. Complete soldering within 10 seconds for reflow soldering and within 3 seconds for manual soldering.

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Value			Condition	
		Min.	Typ.	Max.		
Input	Forward voltage	VF	-	1.1V	1.3V	IF=5mA
	Reverse current	IR	-	-	10 μA	VR=5V
	Peak emission wavelength	λp	-	940nm	-	IF=20mA
Output	Collector current	IC	50 μA	150 μA	-	IF=5mA, VCE=5V
	Collector dark current	ID	-	-	100nA	VCE=10V, 0LX
	Collector-Emitter saturation voltage	VCE(sat)	-	0.1V	0.4V	IC=50 μA IF=20mA
	Peak spectral sensitivity wavelength	λp	-	920nm	-	-
Rise time	tr	-	8 μSec	-	VCC=5V RL=1kΩ IC=100 μA	
Fall time	tf	-	10 μSec	-		

Unless otherwise specified, the tolerances are ± 0.15mm.

Fig.1 Forward Current vs. Forward Voltage

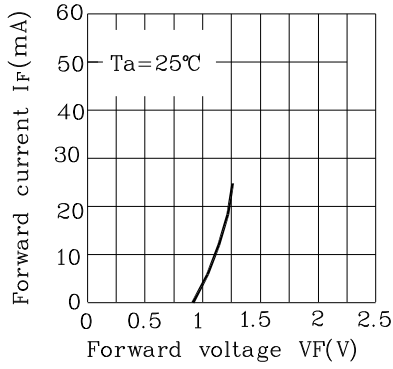


Fig.2 Collector Current vs. Forward Current

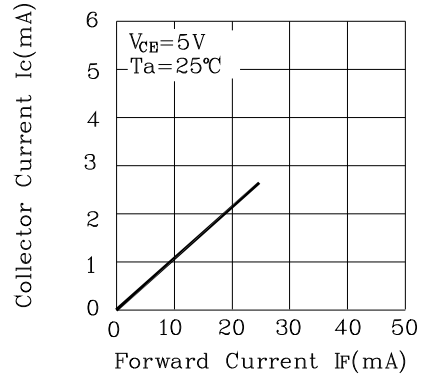


Fig.3 Collector Current vs. Ambient Temperature

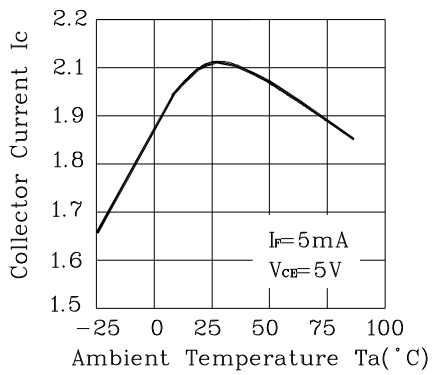


Fig.4 Collector-Emitter Saturation Voltage vs. Ambient Temperature

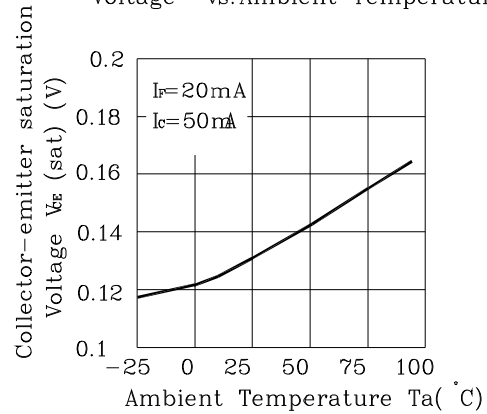


Fig.5 Forward Current vs. Collector Dissipation Temperature Rating

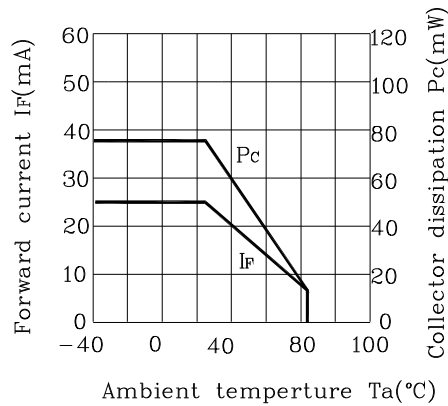
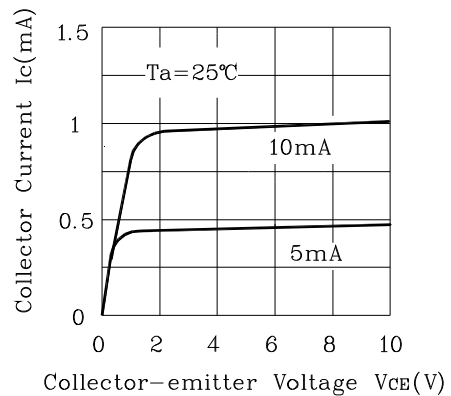


Fig.6 Forward Current vs. Collector-Emitter Voltage



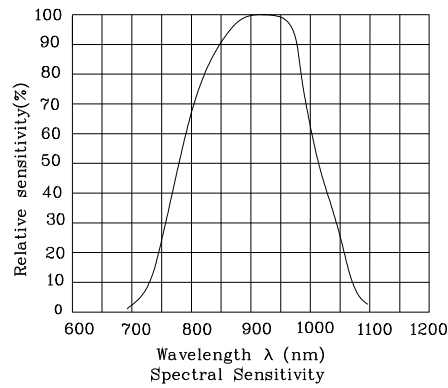


Fig.7 Relative Collector Current vs. Shield Distance(1)

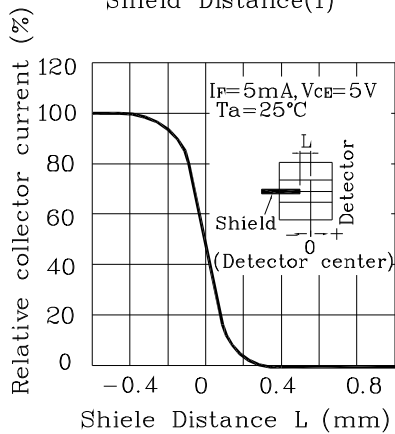


Fig.8 Relative Collector Current vs. Shield Distance(2)

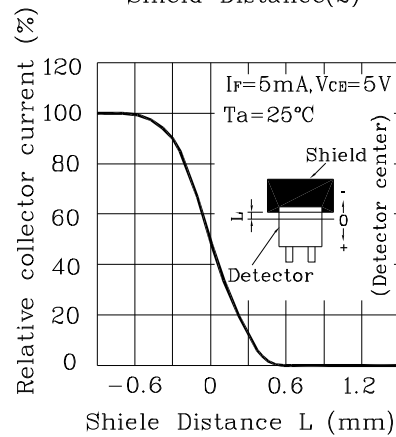
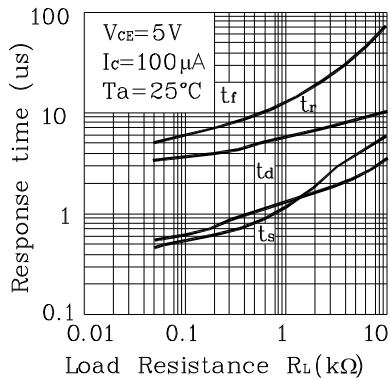
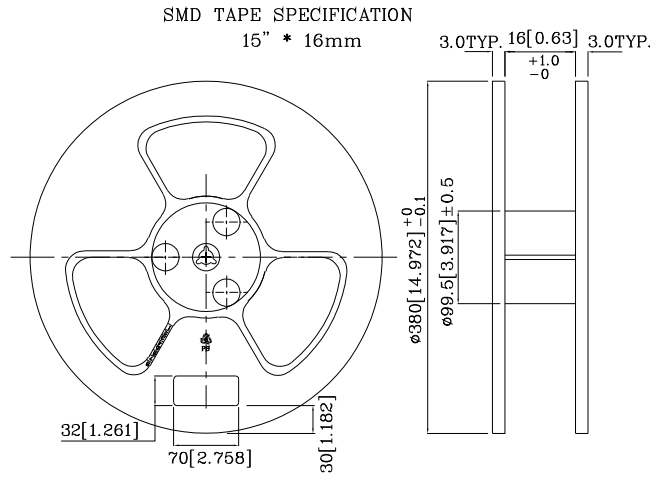


Fig.9 Response Time vs. Load Resistance

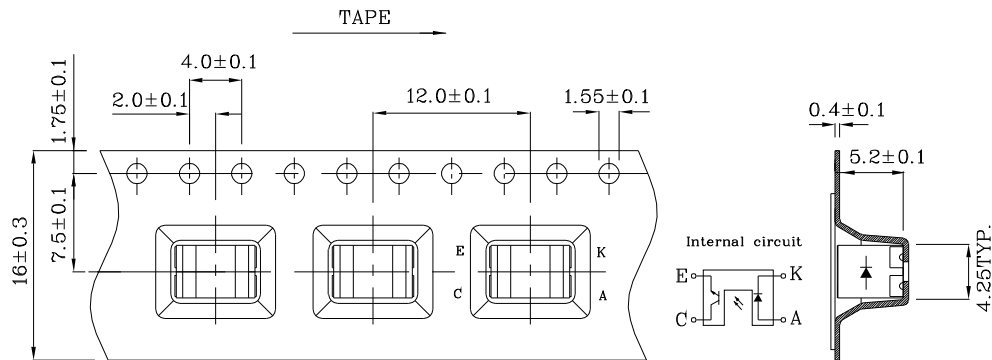


Test Circuit for Response Time

**Reel Dimensions
(Units : mm)**

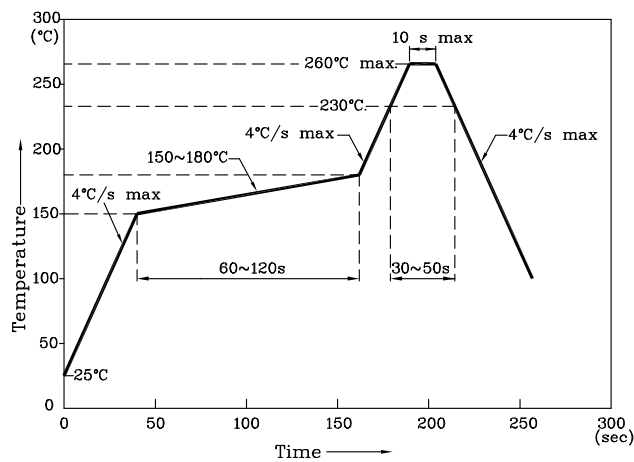


**Tape Specifications
(Units : mm)**



Tape quantity 1000pcs/reel

Reflow Soldering Profile For Lead-free SMT Process.



NOTES:

1. Maximum soldering temperature should not exceed 260°C.
2. Recommended reflow temperature: 145°C-260°C.
3. Do not put stress to the epoxy resin during high temperatures conditions.