

Dustproof Enclosure

	ltem	Symbol	Value
land 1	Forward DC Current	lę.	50mA
	Forward DC Current Derating *	∆l⊭/°C	-0.33mA/°C
mpur	Reverse DC Voltage	VR	5V
	Pulse Forward Current	Ipp	600mA *2
	C-E Voltage	VCEO	30V
	E-C Voltage	VECO	5V
Output	Collector Current	le	50mA
	Collector Power Dissipation	Pc	75mW
	Collector Power Dissipation Derating *	∆P _c /°C	-1mW/°C
Operating Temperature Range		TOPR	-25~+85 °C
Storage Tempe	erature Range	Tsto	-40~+85 °C

(Ta = 25 °C) MECHANICAL CHARACTERISTICS

Vibration Resistance	To withstand 10~55~10Hz, 1.5mm amplitude and 1 min- ute sweep time in X, Y and Z directions, each for 2 hours.
Shock Resistance	294m/S ² (30G) or more.

ELECTRICAL/OPTICAL CHARACTERISTICS

ELECTRICAL/OPTICAL CHARACTERISTICS (Ta = 25 °C)								
Item		Symbol	Conditions	Min	Тур	Max	Unit	
Input	Forward Voltage		VF	I _F = 10mA	1.00	1.15	1.3	v
	Reverse Voltage		l _R	V _R = 5V	-	-	10	μA
	Peak Wavelength		λρ	I _F = 20mA		940	-	nm
Output	Off-State Collector Current		loeo	V _{CE} = 24V E = 0	-	0.005	0.1	μA
	Peak Wavelength		λρ	-	-	870	-	nm
Coupled	Light Current		ار تع	V _{GE} = 5V ^{*4} I _F = 20mA L = 6mm	80	-	1,400	μΑ
	Leak Current		ILEAK ⁷³	V _{CE} = 5V I _F = 20mA	-	500	-	nA
	Switching Time	Rise Time	t,	V ₀₀ = 5V I ₀ = 2mA R _L = 100Ω	-	6	-	μs
		Fall Time	ŧ		-	6	-	μs



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OUTLINE DIMENSIONS



CONNECTION DIAGRAM





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■ INSTALLATION HOLE DIMENSIONS (REFERENCE)



PARTS CONSTRUCTION LIST

No.	Description	Qty. Used	Materials	Remarks
1	Case	1	Polycarbonate	Flammability: UL94V-2 or more
2	Inner Case	1	Polycarbonate	Flammability: UL94V-2 or more
3	PCB	1	CEM-3	Flammability: UL94V-0
4	Connector	1	175489-3	AMP (Natural)
5	Light Emitting Diode	1	-	GaAs Infrared Light Emitting Diode
6	Detector	1	-	Phototransistor



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HANDLING NOTES

- 1. Careful attention should be made to avoid deformation of components.
- 2. Environmental air must be free from corrosive gasses such as hydrogen sulfide or salt water air.
- 3. Mount sensor away from direct sunlight and incandescent light.
- 4. The side with emitting and receiving elements should be handled very carefully.
- 5. Insert and remove connectors at room temperature only.
- 6. Degrading LED radiant power should be addressed if sensor is used repeatedly over a long period of time.
- 7. This product was designed for use in the following applications:

OA equipment, video equipment, consumer electronics, communication equipment, measuring equipment, and control equipment.

When designing a system for safety and reliability, be sure to incorporate fail-safe and other appropriate measures.

FOOTNOTES





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