

Photo Reflector

Features:

- Compact Package
- High Reliability

Applications:

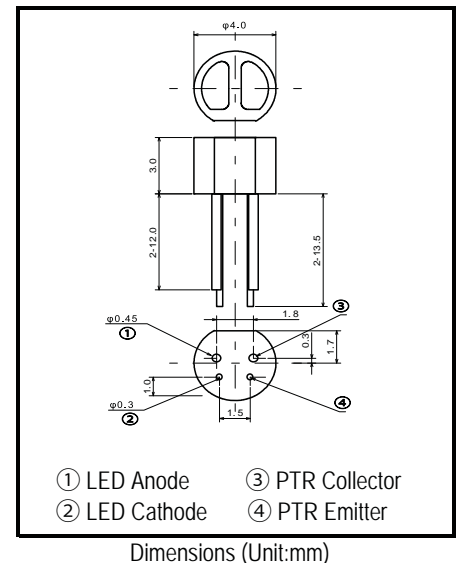
- Card Reader
- Bar-Code Reader
- Edge Sensing
- Money/Bill Reader



Absolute Maximum Ratings (Ta=25°C)

Items	Symbol	Ratings	Unit
Forward Current (LED)	IF	50	mA
Forward Current (LED)*1	IFP	0.5	A
Reverse Voltage (LED)	VR	4	V
Power Dissipation (LED)	PD	100	mW
Collector-Emitter Voltage (PT)	Vce	20	V
Emitter-Collector Voltage (PT)	Vec	5	V
Collector Current (PT)	Ic	50	mA
Collector Power Dissipation (PT)	PC	75	mW
Total Power Dissipation	Ptot	100	mW
Operating Temperature	Topr	-20 ~ +80	°C
Storage Temperature	Tstg	-30 ~ +100	°C

*1: Tw=10μs, T=10mS



Electrical & Optical Characteristics (Ta = 25°C)

Items	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	VF	IF=20mA	--	1.8	2.3	V
Reverse Current	IR	VR=4V	--	--	10	μA
Peak Wavelength	λp	IF=20mA	--	700	--	nm
Spectral Line Half Width	Δλ	IF=20mA	--	25	--	nm
Dark Current (Iceo)	ID	Vce=10V	--	--	100	nA
Output Current	Io	IF=20mA, Vce=2V, d=1mm*	180	500	--	μA
Cross-talk Current	Ix	IF=20mA, Vce=2V	--	--	200	nA
Rise Time (10 to 90%)	Tr	Vce=5V, Io=0.1mA, RL=1K Ω	--	20	--	μS
Fall Time (10 to 90%)	Tf	Vce=5V, Io=0.1mA, RL=1K Ω	--	30	--	μS

*Measured by reflecting with Aluminum evaporated mirror (d=1.00mm).

Graphs:

