Photointerrupter, double-layer mold type

RPI-352

The RPI-352 is a compact, double-layer mold photointerrupter.

Applications

Floppy disk drives

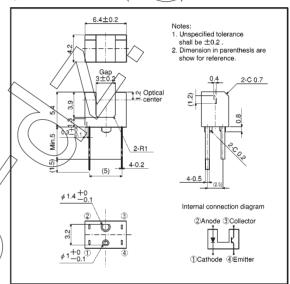
Printers

Facsimiles

VCR

- Features
- 1) Positioning pin enables precision mounting.
- 2) Gap between emitter and detector is 3.0 mm.
- 3) Compact

●External dimensions (Units: mm)



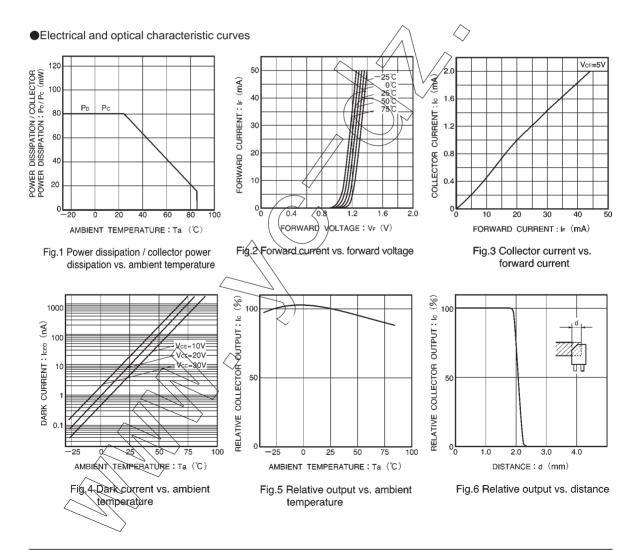
●Absolute maximum ratings (Ta = 25°C)

Parameter		Symbol	Limits	Unit
Input(LED)	Forward current	lF	50	mA
	Reverse voltage	✓ VR	5	V
	Power dissipation	P□	80	mW
Output (photo- (transistor)	Collector-emitter voltage	VCEO	30	V
	Emitter-collector voltage	VECO	4.5	V
	Collector current	Ic	30	mA
	Collector power dissipation	Pc	80	mW
Operating temperature		Topr	-25~ + 85	ొ
Storage temperature		Tstg	−30~+85	${\mathfrak C}$

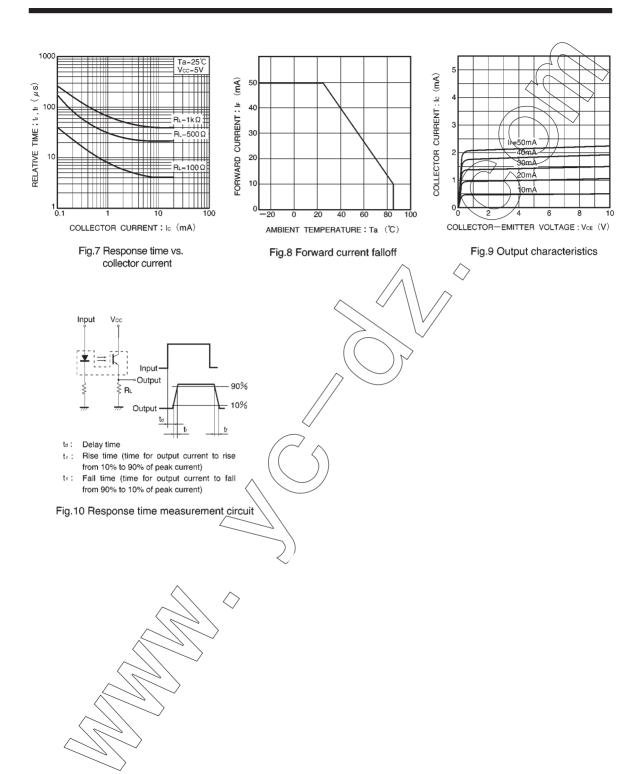
Sensors RPI-352

●Electrical and optical characteristics (Ta = 25°C)

Parameter		Min.	Тур.	Max.	Unit	Conditions
Forward voltage	VF	_	1.3	1.6	٧	I==50mA
Reverse current	lR	_	_	10	μΑ	V _R =5V
Dark current	ICEO	_	_	0.5	μΑ	VcE=10V
Peak sensitivity wavelength	λР	_	800	_	nm	
Collector current	lc	0.2	1.0	_	mA	Vc=5V, I=20mA
Collector-emitter saturation voltage	VCE(sat)	_	_	0.4	٧	I==20mA, Ic=0.1mA
Response time	tr • tf	_	10	_	μS	Vcc=5V, k=20mA/RL=100Ω
	Forward voltage Reverse current Dark current Peak sensitivity wavelength Collector current Collector-emitter saturation voltage	Forward voltage Reverse current Dark current Peak sensitivity wavelength Collector current Collector-emitter saturation voltage VF Reverse Current Ic VCE(sat)	Forward voltage Reverse current Dark current Peak sensitivity wavelength Collector current Collector-emitter saturation voltage VF — LCEO VCE(sat) VCE(sat)	Forward voltage V _F — 1.3 Reverse current I _R — — Dark current I _{CEO} — — Peak sensitivity wavelength λ _P — 800 Collector current I _C 0.2 1.0 Collector-emitter saturation voltage V _{CE(sat)} — —	Forward voltage V _F — 1.3 1.6 Reverse current I _R — — 10 Dark current I _{CEO} — — 0.5 Peak sensitivity wavelength λ _P — 800 — Collector current I _C 0.2 1.0 — Collector-emitter saturation voltage V _{CE(sat)} — — 0.4	Forward voltage V_F — 1.3 1.6 V Reverse current I_R — — 10 μ A Dark current I_{CEO} — — 0.5 μ A Peak sensitivity wavelength λ_P — 800 — nm Collector current I_C 0.2 1.0 — mA Collector-emitter saturation $V_{CE(sat)}$ — — 0.4 V



Sensors RPI-352



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