## Sensors

# Phototransistor, side view type RPM-25PT

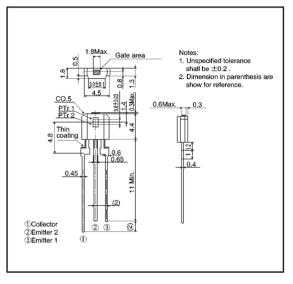
The RPM-25PT is a silicon planar phototransistor in a side-facing package with two-phase output. This device is particularly suited for use with a ROHM SIM-22ST infrared light emitting diode.

ApplicationsOptical control equipment

## Features

- 1) High sensitivity.
- 2) Two-phase output.
- 3) Side-facing detector.

### External dimensions (Units: mm)



### •Absolute maximum ratings (Ta = $25^{\circ}$ C)

Parameter	Symbol	Limits	Unit
Collector-emitter voltage	Vceo	30	V
Emitter-collector voltage	Veco	4.5	V
Collector current	lc	30	mA
Collector power dissipation	Pc	100	mW
Operating temperature	Topr	-25~+85	Ĉ
Storage temperature	Tstg	-30~+100	Ĵ

•Electrical and optical characteristics (Ta =  $25^{\circ}$ C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Light current	Ic1,Ic2	25	_	100	μA	Vce=5V, E=500Lx
Dark current	ICEO	—	—	0.5	μA	Vce=10V(Black box)
Peak sensitivity wavelength	λP	—	800	-	nm	
Collector-emitter saturation voltage	VCE(sat)	_	—	0.4	V	Ic=25 μ A, E=500Lx
Dispersion for sensitivity	Ic1 / Ic2	0.8	1.0	1.2	_	—
Response time	tr∙tf	_	10	_	μs	Vce=5V, Ic=1mA, RL=100Ω

Electrical and optical characteristic curves

