Photointerrupters(Actuator type)

KODENSHI

SG - 405

The SG - 405 actuator type photointerrupter combined GaAs IRED, high sensitive phototransistor and actuator, is ideal for copiers, facsimiles.

FEATURES

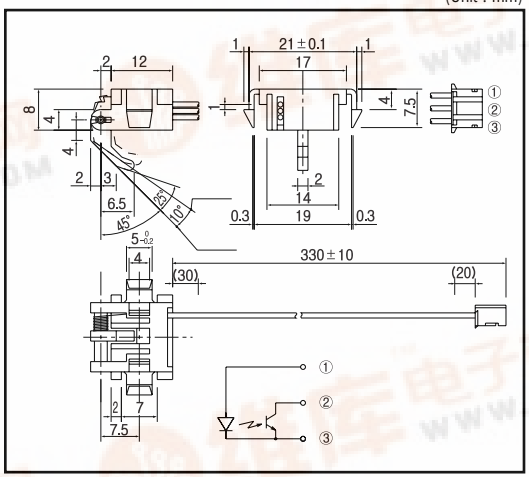
- Widely applicable
- Compact & light
- Wide choice of levers
- Connector type

APPLICATIONS

- Copiers
- Facsimiles
- Printers
- Banking machines

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25℃)

Item		Symbol	Rating	Unit
Input	Power dissipation	P_D	100	mW
	Reverse voltage	V_R	5	V
	Forward current	I_F	60	mA
	Pulse forward current *1	I_{FP}	1	A
Output	Collector power dissipation	P_C	100	mW
	Collector current	I_C	40	mA
	C - E voltage	V_{CEO}	30	V
	E - C voltage	V_{ECO}	5	V
Operating temp. *2		Topr.	−20 +70	℃
Storage temp. *2		Tstg.	−30 +85	℃

*1. t w 100μsec. period : T=10msec.
*2. No icebound or dew

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25℃)

Item		Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input	Forward voltage	V_F	I_F=30mA		1.2	1.5	V
	Reverse current	I_R	V_R=5V			10	μA
Output	Collector dark current	I_{CEO}	V_{CE}=10V		5	100	nA
Ligh current		I_L	V_{CE}=5V, I_F=20mA	0.5	1.5		mA
C - E saturation voltage		V_{CE}(sat)	I_F=20mA, I_F=0.3mA			0.4	V

MECHANICAL CHARACTERISTICS

Item	Conditions	Min.	Typ.	Max.	Unit.
Static point θ1			45		deg.
Open point θ2		5	10	15	deg.
Movement torque				1.5	gf/cm
Shock endurance	packing status	Min 30G			-

Item	Conditions	Min.	Typ.	Max.	Unit.
Vibration endurance		10~55~10Hz/Min Vibration Axis 1.5mm X,Y,Z Each Direction			-
Mechanical life time		Min 10^5 times			-

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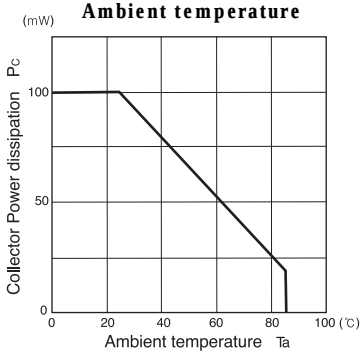
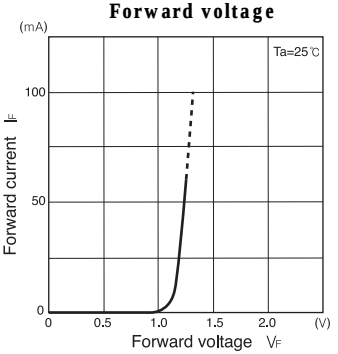
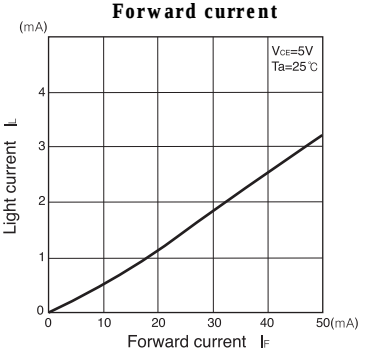
Collector power dissipation Vs. Ambient temperature



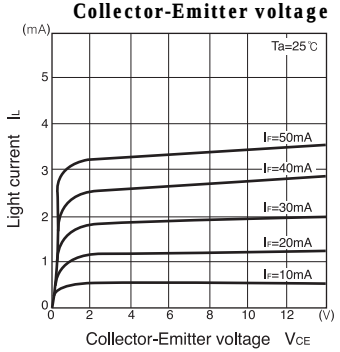
Forward current Vs. Forward voltage



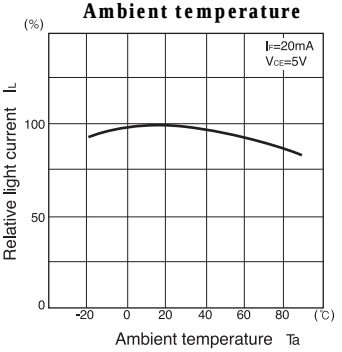
Light current Vs. Forward current



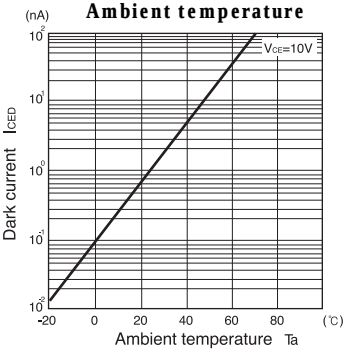
Light current Vs. Collector-Emitter voltage



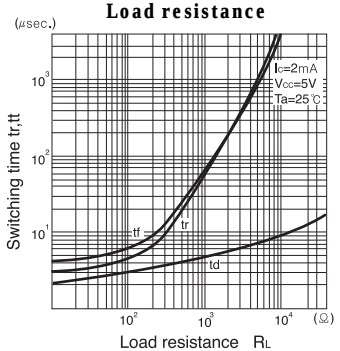
Relative light current Vs. Ambient temperature



Dark current Vs. Ambient temperature



Switching time Vs. Load resistance



Relative light current Vs. Angle