

SG - 405

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

FEATURES

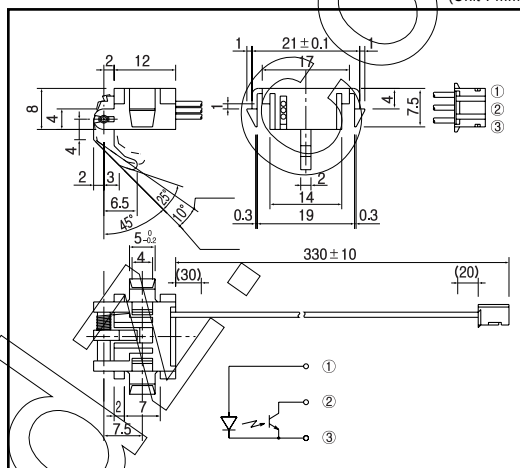
- Widely applicable
- Compact & light
- Wide choice of levers
- Connector type

APPLICATIONS

- Copiers
- Facsimiles
- Printers
- Banking machines

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25°)

Item	Symbol	Rating	Unit
Input	Power dissipation	P _D	100
	Reverse voltage	V _R	5
	Forward current	I _F	60
	Pulse forward current *1	I _{FP}	1
Output	Collector power dissipation	P _C	100
	Collector current	I _C	40
	C - E voltage	V _{CEO}	30
	E - C voltage	V _{ECO}	5
	Operating temp.*2	T _{opr.}	-20 +70
	Storage temp.*2	T _{stg.}	-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
	Light 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

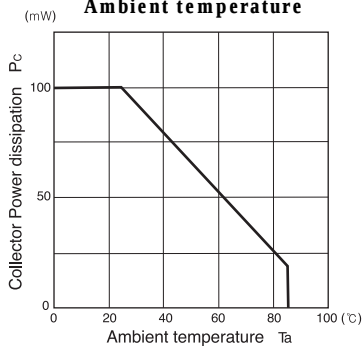
Item	Conditions	Min.	Typ.	Max.	Unit.
Static point			45		deg.
Open point		5	10	15	deg.
Movement torque			1.5		gf/cm
Shock endurance	packing status	Min 30G			-

Item	Conditions	Min.	Typ.	Max.	Unit.
Vibration endurance		10~55~10Hz/Min			-
Mechanical life time		Min 10 ⁷ times			-

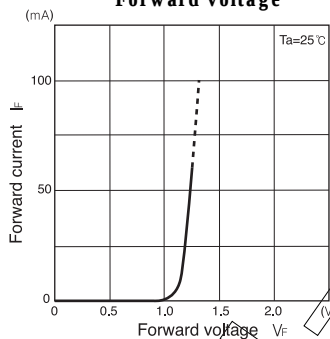
Photointerrupters(Actuator type)

SG - 405

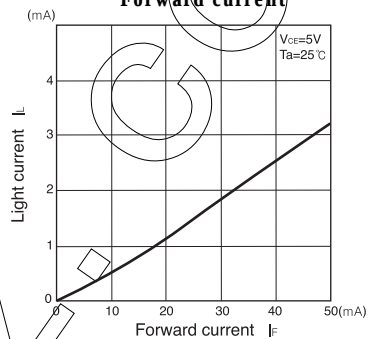
Collector power dissipation Vs. Ambient temperature



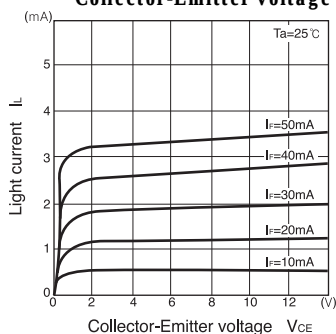
Forward current Vs. Forward voltage



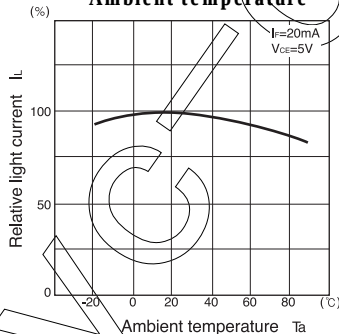
Light current Vs. Forward current



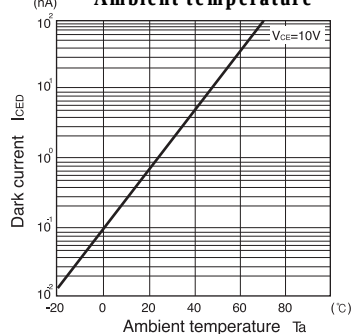
Light current Vs. Collector-Emitter voltage



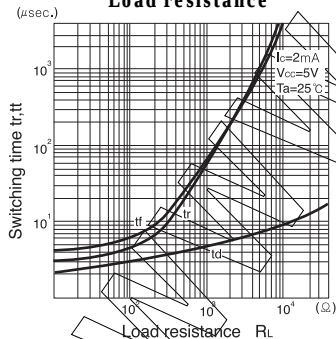
Relative light current Vs. Ambient temperature



Dark current Vs. Ambient temperature



Switching time Vs. Load resistance



Relative light current Vs. Angle

