

SG - 402

The SG - 402 actuator type photointerrupter combined GaAs IRED, high sensitive phototransistor and actuator, is ideal for copiers, facsimiles.

FEATURES

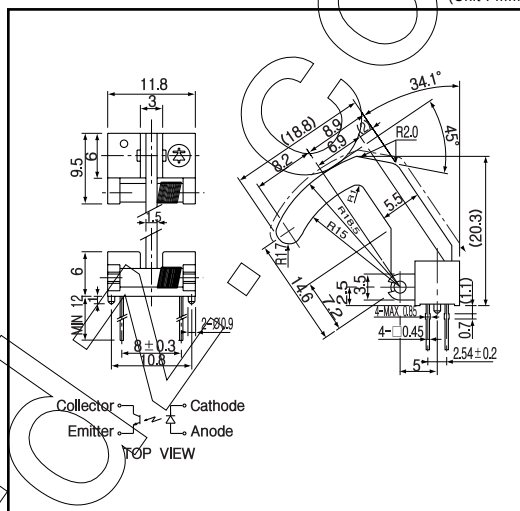
- Widely applicable
- Compact & light
- Wide choice of levers

APPLICATIONS

- Copiers
- Facsimiles
- Printers
- Banking machines

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

~~(Ta=25)~~

Item		Symbol	Rating	Unit
Input	Power dissipation	P_D	100	mW
	Forward current	I_F	5	V
	Reverse voltage	I_R	60	mA
	Pulse forward current ¹	I_{FP}	1	A
Output	Collector power dissipation	P_C	100	mW
	Collector current	I_C	40	mA
	Collector - Emitter voltage	V_{CEO}	30	V
	Emitter - Collector voltage	V_{ECO}	5	V
Operating temp. ²		T_{opr}	-20 +70	
Storage temp. ²		T_{stg}	-30 +85	

*1.t w 100 μ sec. 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	$I_F = 30\text{mA}$		1.2	1.5	V
	Reverse current	I_R	$V_R = 5\text{V}$			10	μA
Output	Collector dark current	I_{CEO}	$V_{CE} = 10\text{V}$		5	100	nA
	Light current	I_L	$V_{CE} = 5\text{V}, I_F = 20\text{mA}$	0.5	1.5		mA
	C-E saturation voltage	$V_{CE(sat)}$	$I_F = 20\text{mA}, I_L = 0.3\text{mA}$			0.4	V

MECHANICAL CHARACTERISTICS

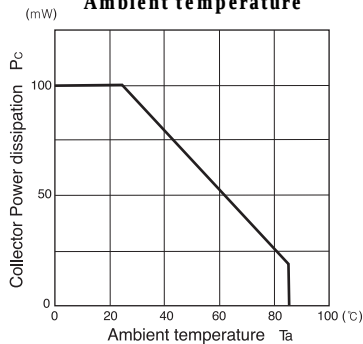
Item	Conditions	Min	Typ	Max	Unit
Static point A			34.1		deg.
Open point B		7	10	13	deg.
Movement torque				1.5	g/cm
Shock endurance	packing status		Min 30G		

Item	Conditions	Min	Typ	Max	Units
Vibration endurance		10-55-10Hz/Mir Vibration Axis 1.5mm X,Y,Z Each Direction			-
Mechanical life time		Min 10	times		-

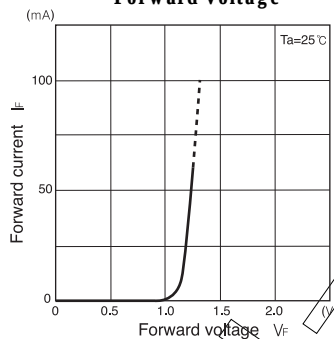
Photointerrupters(Actuator type)

SG - 402

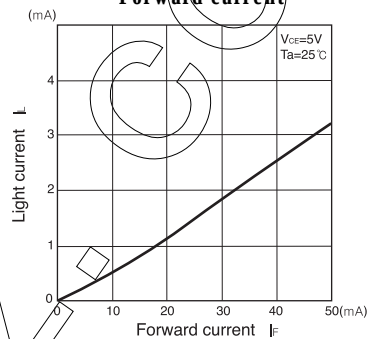
Collector power dissipation Vs. Ambient temperature



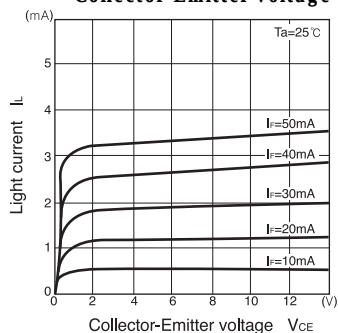
Forward current Vs. Forward voltage



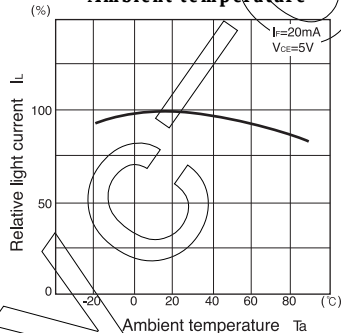
Light current Vs. Forward current



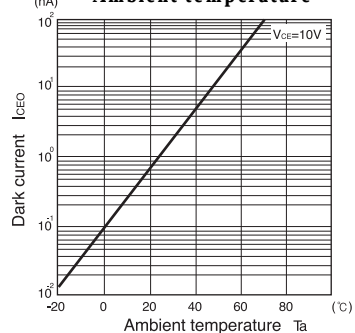
Light current Vs. Collector-Emitter voltage



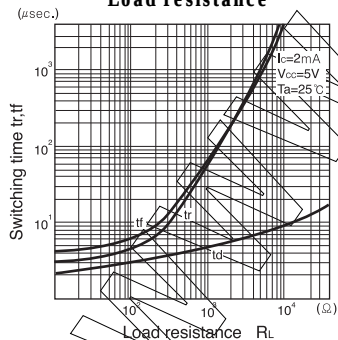
Relative light current Vs. Ambient temperature



Dark current Vs. Ambient temperature



Switching time Vs. Load resistance



Relative light current Vs. Angle

