

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

FEATURES

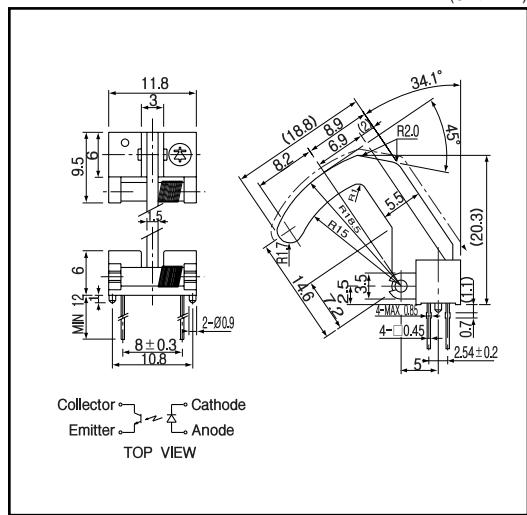
- Widely applicable
- Compact & light
- Wide choice of levers

APPLICATIONS

- Copiers
- Facsimiles
- Printers
- Banking machines

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25 °C)

Item	Symbol	Rating	Unit
Input	P _D	100	mW
	V _F	5	V
	I _F	60	mA
	I _{FP}	1	A
Output	P _C	100	mW
	I _C	40	mA
	V _{CEO}	30	V
	V _{ECO}	5	V
	Operating temp. ¹	Topr. -20 +70	
	Tstg.	-30 +85	

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

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	V _F	I _F =30mA		1.2	1.5	V
	I _R	V _F =5V			10	µA
Output	I _{CEO}	V _{CE} =10V		5	100	nA
	I _L	V _{CE} =5V, I _F =20mA	0.5	1.5		mA
	V _{CE(sat)}	I _F =20mA, I _L =0.3mA			0.4	V

MECHANICAL CHARACTERISTICS

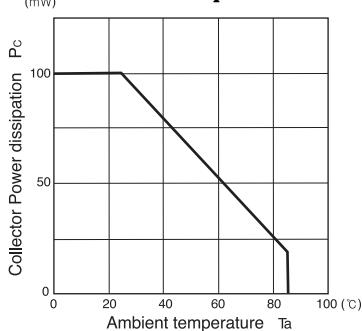
Item	Conditions	Min	Typ	Max	Unit
Static point 1		34.1		deg.	
Open point 2		7	10	13	deg.
Movement torque			1.5	gf/cm	
Shock endurance	packing status	Min 30G	-		

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 ⁶ times			-

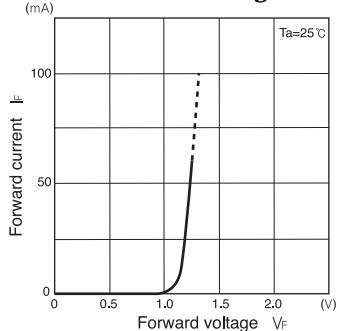
Photointerrupters(Actuator type)

SG - 402

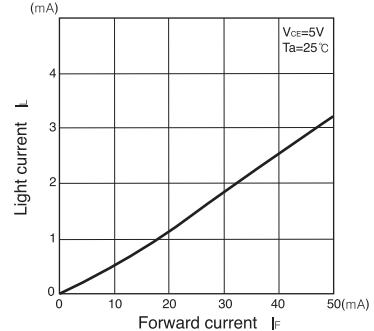
**Collector power dissipation Vs.
Ambient temperature**



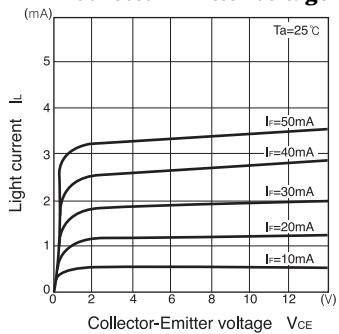
**Forward current Vs.
Forward voltage**



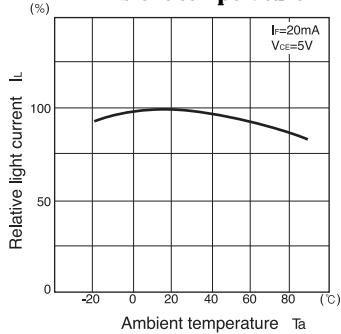
**Light current Vs.
Forward current**



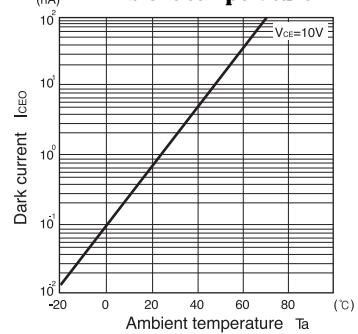
**Light current Vs.
Collector-Emitter voltage**



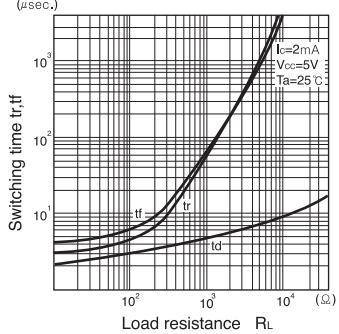
**Relative light current Vs.
Ambient temperature**



**Dark current Vs.
Ambient temperature**



**Switching time Vs.
Load resistance**



**Relative light current Vs.
Angle**

