

SG 402

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

FEATURES

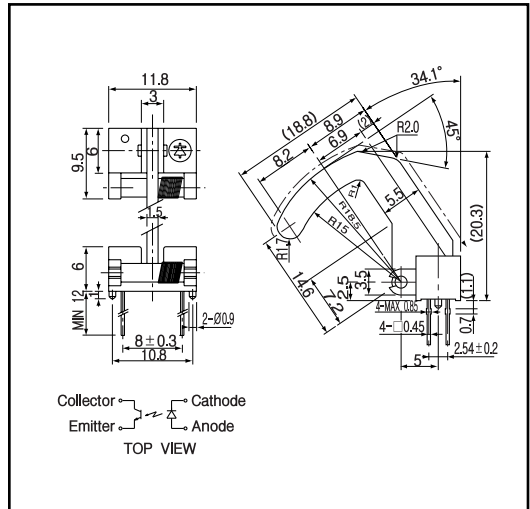
- Widely applicable
- Compact & light
- Wide choice of levers

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	V _R	5	V
	Reverse voltage	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
	Collector - Emitter voltage	V _{CEO}	30	V
	Emitter - Collector voltage	V _{ECC}	5	V
	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
	High 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 _E =0.3mA			0.4	V

MECHANICAL CHARACTERISTICS

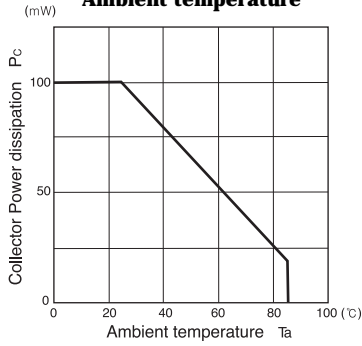
Item	Conditions	Min.	Typ.	Max.	Unit
Static point 1			34.1		deg.
Open point 2		7	10	13	deg.
Movement torque				1.5	gf/cm
Shock endurance	packing status	Min 30G			-

Item	Conditions	Min.	Typ.	Max.	Unit
Vibration endurance		10~55~10Hz/Mir			-
		Vibration Axis 1.5mm			-
		X,Y,Z Each Direction			-
Mechanical life time		Min 10 ⁷ times			-

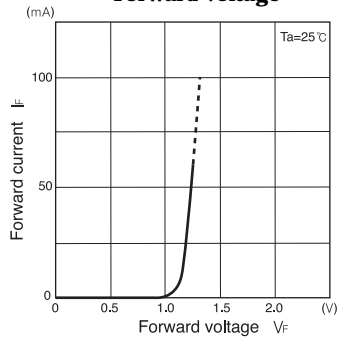
Photointerrupters(Actuator type)

SG 402

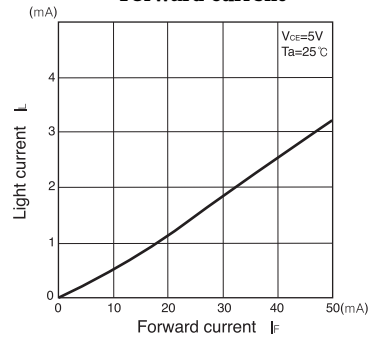
Collector power dissipation Vs. Ambient temperature



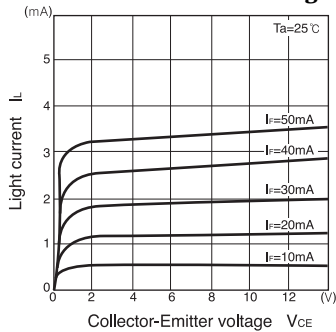
Forward current Vs. Forward voltage



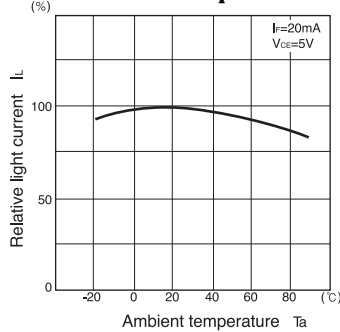
Light current Vs. Forward current



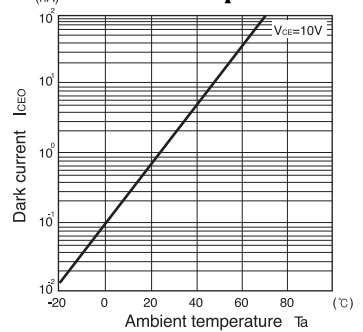
Light current Vs. Collector-Emitter voltage



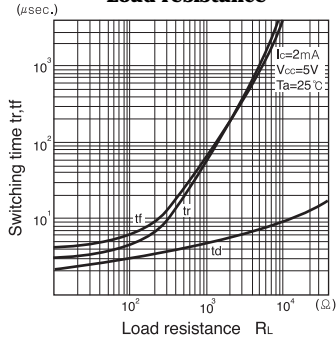
Relative light current Vs. Ambient temperature



Dark current Vs. Ambient temperature



Switching time Vs. Load resistance



Relative light current Vs. Angle

