

SST955R-02

Photo Transistor

SST955R-02 is a high sensitivity NPN silicon phototransistor mounted in a $\Phi 5$ plastic package. It is compact and easy to mount.

Features

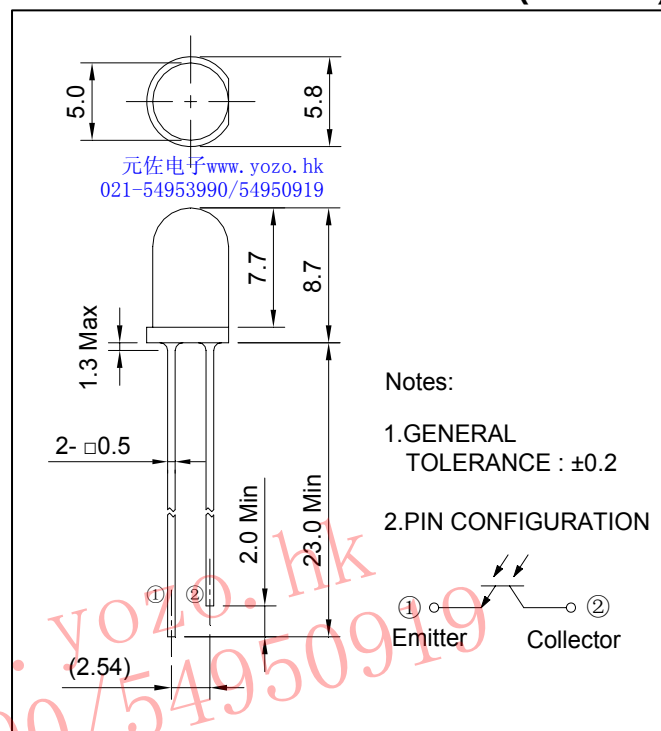
- High output
- Small acceptance angle
- Compact ($\Phi 5\text{mm}$)
- Visible ray cut off
- RoHS Compliance

Application

- Photointerrupters
- Optical detectors
- Optical counters

Dimensions

(Unit:mm)



MAXIMUM RATINGS

($T_a = 25^\circ\text{C}$)

Item	Symbol	Rating	Unit
C-E voltage	Vceo	30	V
E-C voltage	Veco	6	V
Collector current	Ic	40	mA
Collector power dissipation	Pc	100	mW
Operating temp.	Topr.	- 30~+70	°C
Storage Temp.	Tstg.	- 40~+80	°C
Soldering temp. * 1	Tsol.	260	°C

Note : *1. For MAX.5 seconds at the position of 2mm from the case

ELECTRO- OPTICAL CHARACTERISTICS

($T_a = 25^\circ\text{C}$)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Collector dark current	I _{ceo}	V _{ce} =10V	-	1	10	nA
Light current	I _L	V _{ce} =5V, 1,000 lx * 2	8	15	-	mA
C-E saturation voltage	V _{ce(sat)}	I _c =0.5mA, 2,000 lx * 2	-	-	0.3	V
Switching speeds Rise time	t _r	V _{cc} =10V, I _c = 5 m A , R _L = 100Ω		3.2		usec
Switching speeds Fall time	t _f		-	4.8	-	usec
Spectral sensitivity	λ		700~1,050			nm
Peak wavelength	λ _p	元佐电子www.yozo.hk 021-54953990/54950919	-	880	-	nm
Half angle	△θ		-	±7	-	deg.

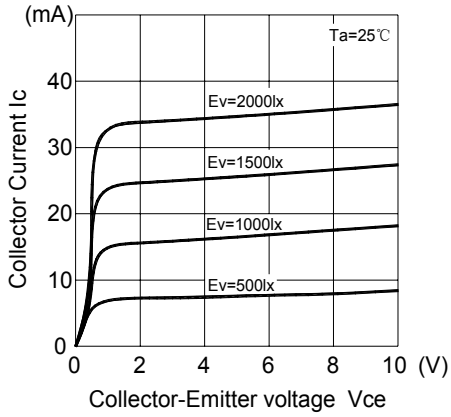
Note : *2. Irradiance by CIE standard light source A (2856K tungsten lamp)

Photo Transistor

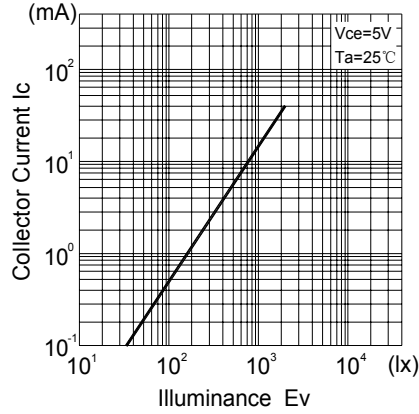
SST955R-02

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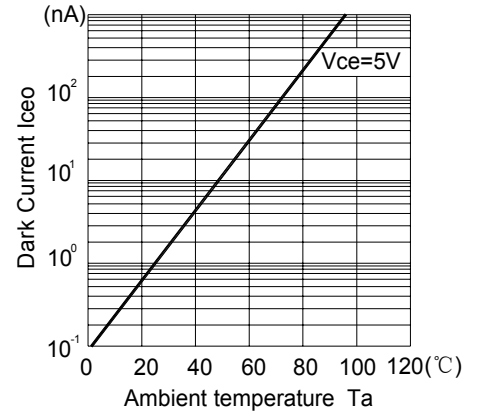
Collector current Vs.
Collector-Emitter Voltage



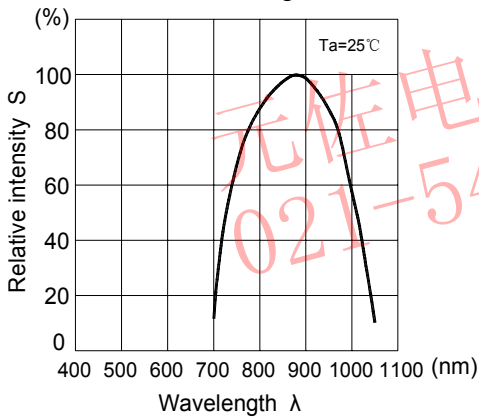
Collector current Vs.
Illuminance



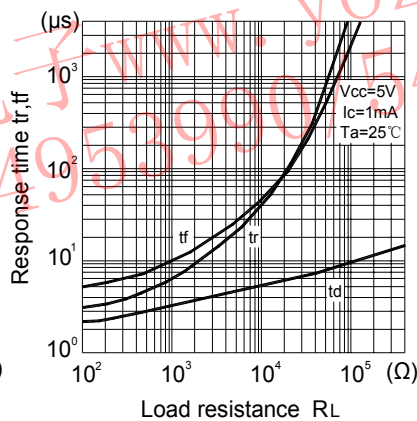
Dark Current Vs.
Ambient temperature



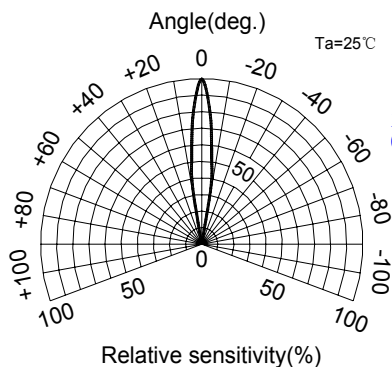
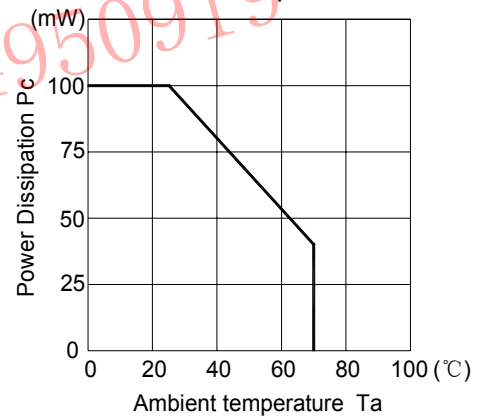
Relative sensitivity Vs.
Wavelength



Response time Vs.
Load resistance



Power Dissipation Vs.
Ambient Temperature



* Response time measurement circuit

