

# SG222V2

The sg222v2 Photointerrupter high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor. Compact size.

### Features

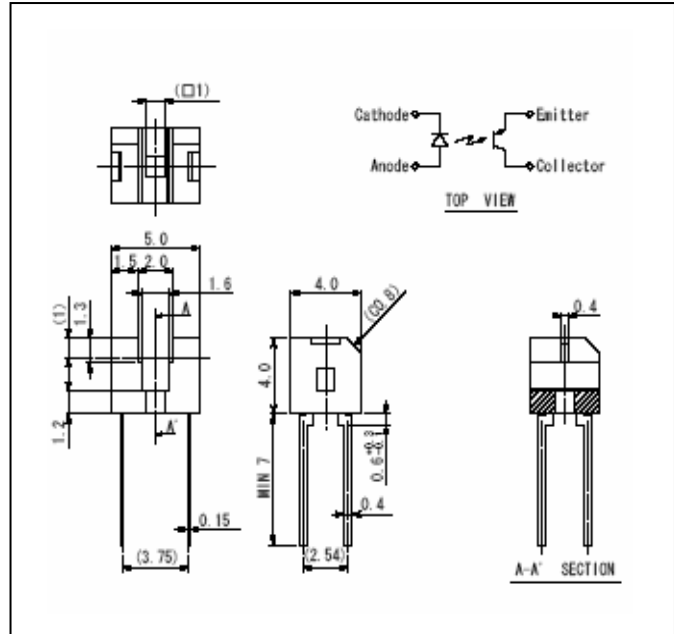
- PWB direct mount type
- GAP : 2.0mm
- Low-boy type (installation height : 4.0mm)

### Applications

- Floppy disk drives
- Mini printers
- Handy copiers
- Car stereo
- Scanners

### Dimensions

(Unit : mm)



### Absolute Maximum Ratings

[Ta = 25°C ]

Description		Symbol	Ratings	Unit
Input	Power dissipation	$P_D$	75	mW
	Forward current	$I_F$	50	mA
	Reverse voltage	$V_R$	5	V
	Pulse forward current *1	$I_{FP}$	0.5	A
Detector	Collector power dissipation	$P_C$	75	mW
	Collector current	$I_C$	20	mA
	Collector-Emitter voltage	$V_{CEO}$	30	V
	Emitter-Collector voltage	$V_{ECO}$	5	V
Operating temp. *2		Topr.	-20~+75	°C
Storage temp. *2		Tstg.	-30~+85	°C
Soldering temp *3		Tsol.	260	°C

\*1. pulse width  $t_w \leq 100 \mu s$  period : T=10ms

\*2. No icebound or dew

\*3. For MAX. 5 seconds at the position of 1mm from the resin edc

### Electro-Optical Characteristics

[Ta = 25°C]

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input.	Forward voltage	$I_F=20mA$	-	1.2	1.4	V
	Reverse current	$V_R=5V$	-	-	10	$\mu A$
	Peak wavelength	$I_F=20mA$	-	940	-	nm
Output	Collector dark current	$V_{CE}=10V, 0 lx$	-	1	100	nA
Transmission	Light current	$I_F=20mA, V_{CE}=5V, (Non-shading)$	0.5	-	3	mA
	Leakage current	$I_F=20mA, V_{CE}=5V, (shading)$	-	0.5	10	$\mu A$
	C-E saturation voltage	$I_F=20mA, I_C=0.1mA$	-	0.15	0.4	V
Rise time	tr	$V_{CC}=5V, I_C=0.1mA, R_L=1k\Omega$	-	50	-	$\mu s$
Fall time	tf		-	50	-	$\mu s$

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