

PHOTOINTERRUPTERS <Transmissive type>

(Ta=25°C)

Type	Model No.	Internal connection diagram	Features	Detecting and emitting gap (mm)	Slit width or resolution (mm)	Electro-optical characteristics						
						Current transfer ratio			Response time			
						CTR (%) MIN.	IF (mA)	VCE (V)	tr (μs) TYP.	IC (mA)	RL (Ω)	VCE (V)
Single phototransistor output	GP1S06		High resolution, PWB mounting type	3.0	0.25	0.5	20	5	38	0.5	1 000	2
	GP1S10		PWB mounting type, with cover case	3.0	0.5	2.0	20	5	3	2	100	2
	GP1S50*1		High resolution, both-side mounting type	3.0	0.5	2.5	20	5	3	2	100	2
	GP1S51V*1		High resolution, side-mounting type	3.0	0.5	2.5	20	5	3	2	100	2
	GP1S52V*1		High resolution, PWB mounting type	3.0	0.5	2.5	20	5	3	2	100	2
	GP1S53V*1		High resolution, PWB mounting type	5.0	0.5	2.5	20	5	3	2	100	2
	GP1S522		Automatic mounting (Lead pin fixed type)	3.18	1.27	2.5	20	10	15	2	1000	5
	GP1S54		High resolution, with positioning pin, PWB mounting type	3.0	0.5	2.5	20	5	3	2	100	2
	GP1S55T		High resolution, with positioning pin, PWB mounting type	2.0	0.15	3.0	20	5	5	2	100	2
	GP1S56T		High resolution, with positioning pin, PWB mounting type	2.0	0.15	2.0	20	5	38	0.5	1 000	2
	GP1S560		High resolution, compact, with positioning pin, PWB mounting type	2.0	0.15	1.0	20	5	38	0.5	1 000	2
	GP1S561		Compact, lightweight, with positioning pin	3.0	0.5	3.3	9	10	3	1	100	2
	GP1S562		Compact, lightweight, holder that matches shape of mounting equipment included	3.0	0.8	7.0	20	5	3	2	100	2
	GP1S563		Long case, snap-in mounting type	3.0	0.5	2.5	20	5	3	2	100	2
	GP1S566		Long case, snap-in mounting type	3.0	0.5	2.5	20	5	3	2	100	2
	GP1S58V		High resolution, with positioning pin, PWB mounting type	5.0	0.5	2.5	20	5	3	2	100	2
	GP1S59		High resolution, horizontal slit, with positioning pin, PWB mounting type	4.2	0.5	2.5	20	5	3	2	100	2
	GP1S21		Subminiature, with mounting hole, PWB mounting type	1.2	0.8	1.8	1.5	5	50	0.1	1 000	5
	GP1S22		High resolution, subminiature, with mounting hole, PWB mounting type	1.2	0.3	2.0	5	5	50	0.1	1 000	5
	GP1S23		High resolution, subminiature, wide gap, with mounting hole, PWB mounting type	2.0	0.3	0.8	5	5	50	0.1	1 000	5
	GP1S24		High resolution, subminiature, wide gap, with positioning pin, PWB mounting type	3.0	0.3	0.8	5	5	50	0.1	1 000	5
	GP1S25		Subminiature, side lead type, allows reflow soldering	1.6	0.3	1.0	5	5	35	0.1	1 000	5
	GP1S27		Subminiature, PWB mounting type	0.9	0.8	4.3	1.5	5	50	0.1	1 000	5
	GP1S28		Subminiature, PWB mounting type, with positioning boss	1.2	0.3	2.0	5	5	50	0.1	1 000	5
	GP1S29		Subminiature, PWB mounting type, thin detector type	0.9	0.8	2.7	1.5	5	50	0.1	1 000	5
	GP1S30		Subminiature, PWB mounting type, two-phase output type	0.9	0.6*2	6.25	4.0	5	50	0.1	1 000	5
	GP1S32		Subminiature, high resolution, high speed response type	1.6	0.3	1.0	5	5	35	0.1	1 000	5
	GP1S33		Subminiature, allows reflow soldering	2.0	0.3	2.0	5	5	50	0.1	1 000	5
GP1S34	High resolution, subminiature PWB mounting type	1.2	0.1*3	1.0	5	5	50	0.1	1 000	5		
☆GP1S36	Built-in ball (2 phase output), subminiature, PWB mounting type	—	—	1.2	5	5	3	0.1	1 000	5		
GP1S37	Subminiature, PWB mounting type	2.0	0.8	1.0	3	5	50	0.1	1 000	5		

* Topr: -25 to +85°C

*1 High reliability types, GP1SQ50, GP1SQ51V, GP1SQ52 and GP1SQ53 are also available.

*2 Reading pitch

*3 Resolution

Internet address for Electronic Components Group
<http://www.sharp.co.jp/ecg/>

Notice

In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

Optoelectronics