SHARP

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Photointerrupter with Connector

GP1A173LCS2F/GP1S173LCS2F

Features

- Employs connector-united case and connector pin-united frame.
 - Low cost by part reduction
- High operating temperature (-30 to +95 °C) Extending area to mount photointerrupter under high/low temperature condition in copier & LBP.
- High reliability of connection improved by combined case & connector as one part.
- Mechanical installation is compatible with conventional models. (GP1A73/GP1S73 series)

Main Specifications

OPIC output type [GP1A173LCS2F] Symbol Characteristics Parameter Operating supply voltage Vcc 4.5 to 5.5 V Low level supply current MAX. 16.5 mA **I**CCL Low level output voltage MAX. 0.35 V Vol High level supply current MAX. 16.5 mA Іссн High level output voltage Vон MIN. Vcc × 0.9 V MIN. interruption time Response tн MIN. 166 µs characteristics | MIN. sensing time MIN. 166 µs t∟ Operating temperature -30 to +95 °C Topr

Phototransistor output type [GP1S173LCS2F]

Parameter		Symbol	Characteristics
Forward voltage		VF	1.2 to 1.4 V
Peak forward voltage		Vfm	TYP. 3 V
Reverse voltage		IR	MAX. 10 mA
Dark current		ICEO	MAX. 100 nA
Collector current		lc	MIN. 0.5 mA
Collector-emitter voltage		VCE (sat)	MAX. 0.4 V
Response characteristics	Rise time	tr	MAX. 15 µs
	Fall time	tr	MAX. 20 µs
Operating temperature		Topr	-30 to +95 °C

Outline Dimensions



Internal Connection Diagram







Amplifier

Application

Example used in copier



Lineup



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