For Facsimiles Monochrome Type IA2008-MB82A

An Epoch-making, Lightweight, Compact Monochrome Image Sensor ROHM's expertise of ROHM LSI circuit design and accumulated manufacturing technology of thermal printheads are combined to produce the industry's smallest and lightest monochrome contact image sensor heads.

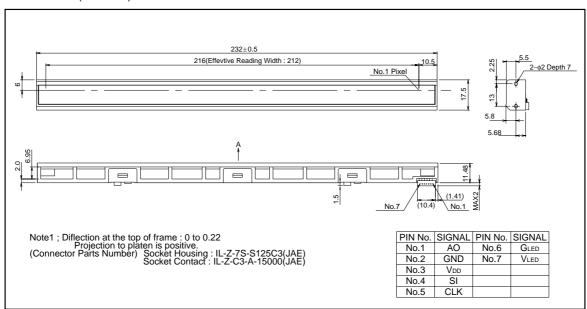
Applications

Facsimiles, scanners, and a variety of other image input devices.

Features

- 1) Signal amplifier integrated into each sensor IC in order to eliminate external noise.
- 2) LED light source mounted on the same substrate as the sensor chip itself, resulting in a more compact, lightweight package.
- 3) 5 volts single power supply is needed for the CIS which will simplify the power supply requirement.
- Ceramic substrate with uniform thermal distribution characteristics used for improved resistance against temperature fluctuations.
- 5) Special prism utilized, resulting in superior light distribution uniformity and light detecting characteristics.

●Dimensions (Unit: mm)



Rev.A



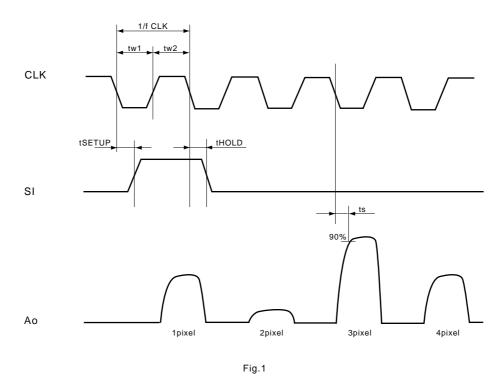
Characteristics

Parameter	Symbol	Тур.	Unit
Effective scanning width	-	212	mm
Primary scan dot density	-	203	dpi
Total dot number	-	1728	dots
Power supply voltage	VDD	5	V
Scanning speed	SLT	5	ms / line
Clock frequency	CLK	1	MHz
Maximum dynamic range	VRMax.	1.6	V
Minimum dynamic range	VRMin.	0.8	V
Dark output	Vod	0.1±0.1	V
Operating temperature	-	5 to 45	°C

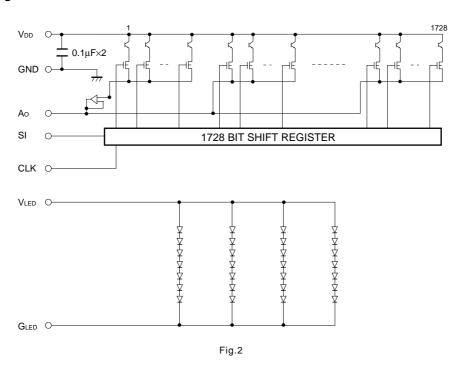
●Pin assignments

No.	Circuit	1/0	Functions
1	Ao	0	Analog output
2	GND	ı	Ground
3	V_{DD}	ı	Power supply
4	SI	ı	Serial-in
5	CLK	ı	Clock
6	R-GND	I	LED ground
7	G-GND	ı	LED power supply

●Timing chart



●Circuit diagram



Notes

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