For Monochrome Multifunction High Reflection Frame Type IA3008-MB30A

These units utilize a high reflectivity white frame for high efficiency and uniform light intensity distribution.

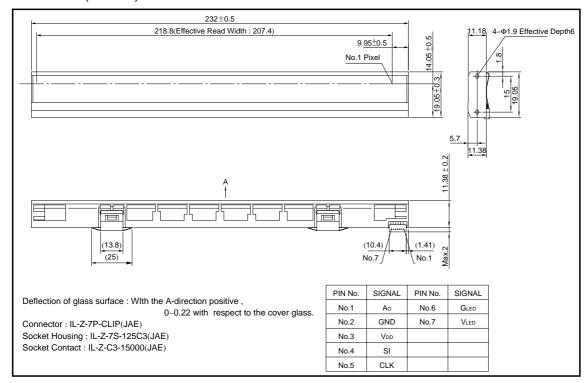
Applications

Image input device for multiple function facsimiles such as scanner and multiple function printer.

Features

- 1) Signal amplifier integrated into each sensor IC in order to eliminate external noise.
- 2) The LED light source is mounted on the same substrate as the sensor chip which makes it possible to package the device with lighter weight and an extremely small size.
- 3) Only one 5V power supply required, simplifying design.
- 4) Ceramic substrate with uniform thermal distribution characteristics used for improved resistance against temperature fluctuations.
- 5) Original highly reflective white frame utilized, resulting in high-speed scanning capability.

●Dimensions (Unit:mm)



Characteristics

Parameter	Symbol	Тур.	Unit
Effective scanning width	_	214	mm
Primary scan dot density	_	300	dpi
Total dot number	_	2584	dots
Power supply voltage	V _{DD}	5	V
Scanning speed	SLT	1.25	ms / line
Clock frequency	CLK	2.5	MHz
Maximum dynamic range	VRMax.	1.0	V
Minimum dynamic range	VRMin.	0.5	V
Dark output	Vod	1.0±0.3	V
Operating temperature	_	5 to 45	°C

●Pin assignments

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

Timing chart



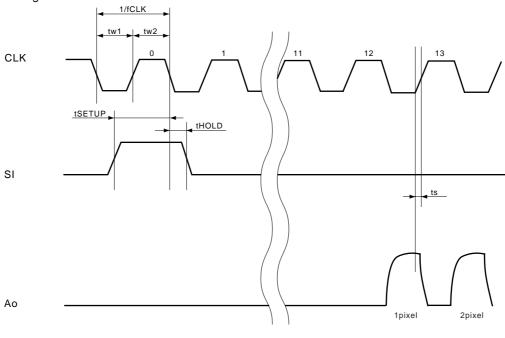
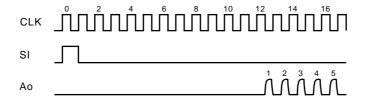


Fig.1

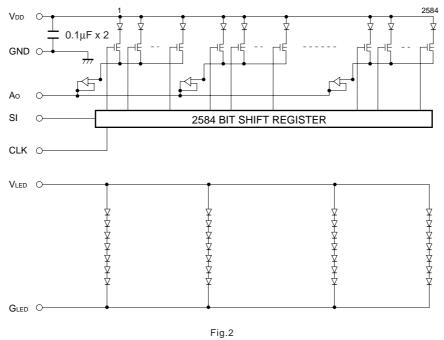
(b) Data Output Timing Chart

After turning on the SI pulse, the analog output starts from the setting up point of 12CLK pulse.



Note) The CLK section area which is over the effective pixel numbers (Output blank part) cannot be used as the analog Output standard level.

●Equivalent circuit



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ROHM CO., LTD. 21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto 615-8585, Japan

oan TEL:+81-75-311-2121 FAX:+81-75-315-0172

