# Monochrome image sensor head (8 pixel / mm)

# IA2008-MB10A

The IA2008-MB10A is a state-of-the-art compact, lightweight A4-size monochrome image sensor head that resulted from the combination of ROHM's LSI circuit technology and thermal printhead mounting technology.

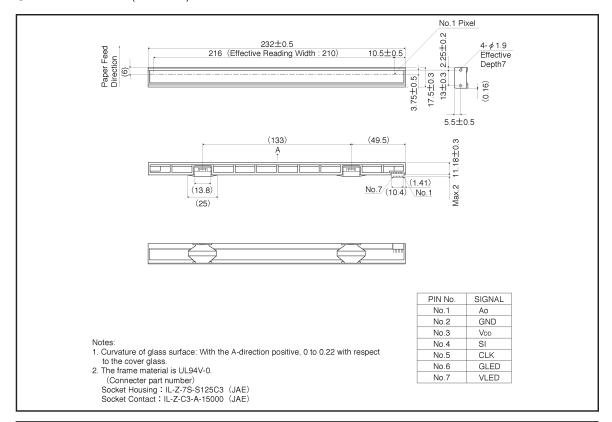
#### Applications

Facsimiles Image scanning devices

#### Features

- 1) The amplifiers, resistors, capacitors, and other discrete components that were normally externally attached, are built into the sensor IC.
- Compact body and lightweight achieved by the placement of the LED light source and sensor IC on the same board.
- 3) Uses a special ROHM developed prism that provides superior light gathering characteristics and uniform light dispersion.
- Uses a ceramic board as the base board for minimal temperature fluctuations and uniform thermal dispersion.

#### External dimensions (Units: mm)



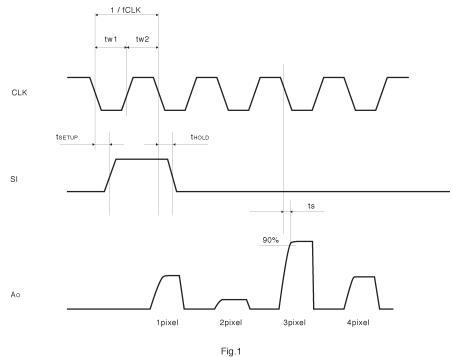
# Characteristics

Parameter	Symbol	Тур.	Unit
Effective scanning width	_	210	mm
Primary scan dot density	_	8	pixel / mm
Total dot number	_	1728	dots
Power supply voltage	V <sub>DD</sub>	5	V
Scanning speed	SLT	5	ms / line
Clock frequency	CLK	500	kHz
Maximum dynamic range	VRMax.	1.6	V
Minimum dynamic range	VRMin.	0.84	V
Dark output	Vod	0~300	mV
Operating temperature	_	5~45	°C

# ●Pin assignments

No.	Circuit	1/0	Functions
1	Ao	0	Analog output
2	GND	I	Ground
3	V <sub>DD</sub>	I	Power supply
4	SI	I	Serial-in
5	CLK	I	Clock
6	GLED	- 1	LED ground
7	VLED	I	LED power supply

# Timing chart



# ●Equivalent circuit

