



## Contact image sensor heads

## ●Characteristics

Parameter	Symbol	Typ.	Unit
Effective scanning width	–	104	mm
Primary scan dot density	–	203	dpi
Total dot number	–	864	dots
Power supply voltage	V <sub>DD</sub>	5	V
Scanning speed	SLT	0.4	ms / line *
Clock frequency	CLK	1.25	MHz
Maximum dynamic range	VRMax.	0.75	V
Minimum dynamic range	VRMin.	0.375	V
Dark output	V <sub>od</sub>	1.7±0.2	V
Operating temperature	–	5 to 45	°C

\* Analogue signals are produced output at double rate of clock frequency.

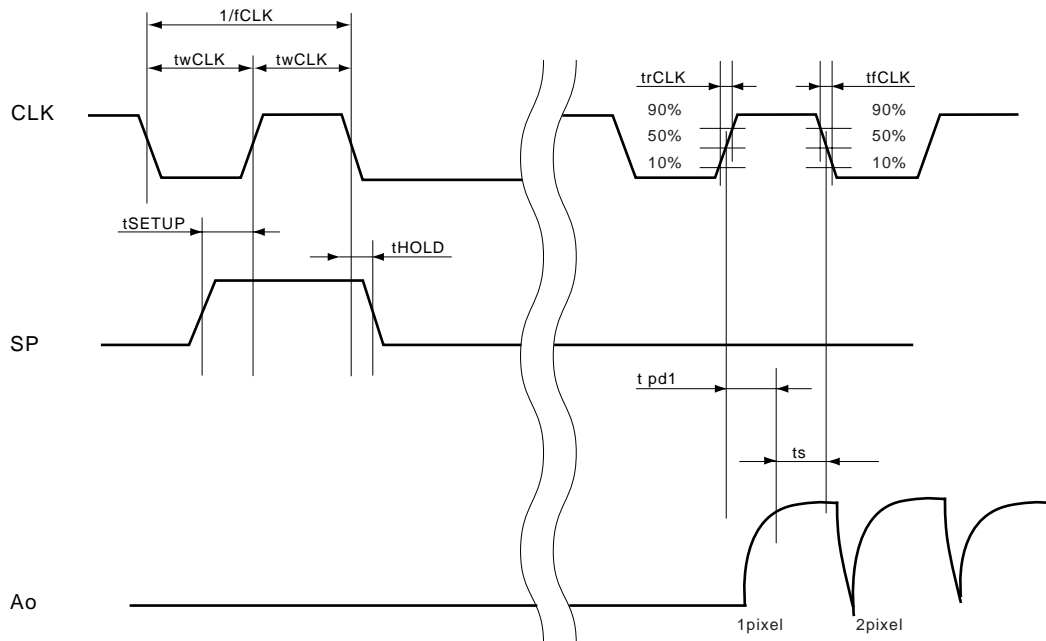
## ●Pin assignments

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

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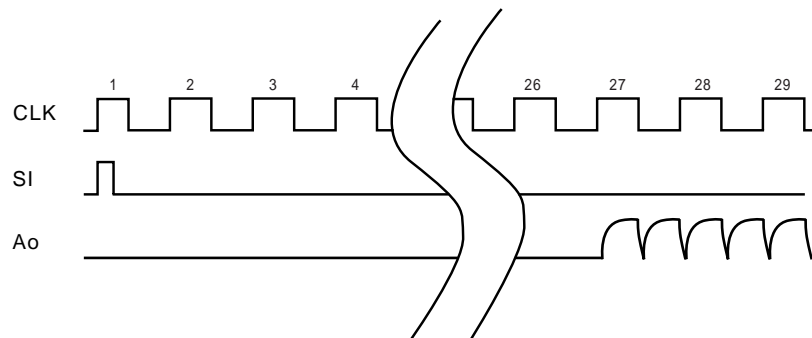
## ●Timing chart

(a) CLK Timing Chart



(b) Data Output Timing Chart

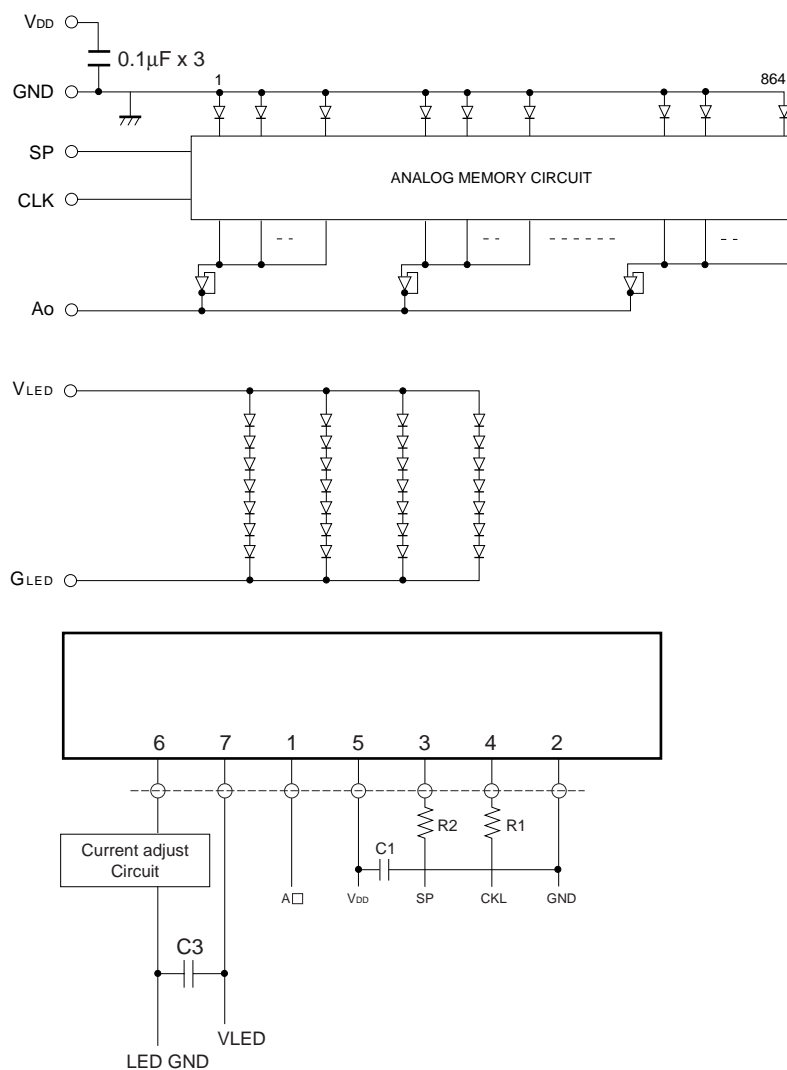
After turning on the SI pulse, the analog output shape starts from the setting up point of 27 clock pulse.



Note) Output blank part cannot be used as the analog output standard level.

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## ●Equivalent circuit



\* R1, R2=500Ω

C1=47µF  
C3=100µF

\* Please adjust the value of resistance to fit your interface circuit.

## Appendix

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