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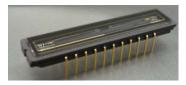
CCD Linear Image Sensor

CCD (Charge Coupled Device)

TCD1209DG

2048-elements, for optical character reader(OCR) and fax machines.





The TCD1209DG is a high speed and low dark current 2048 elements CCD image sensor.

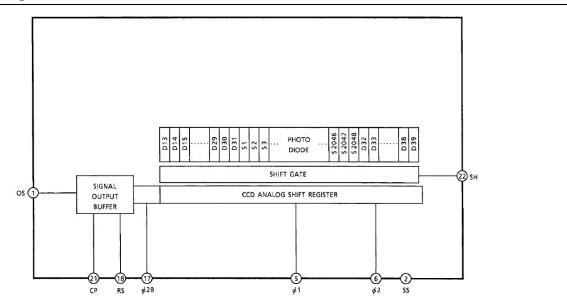
The sensor is designed for facsimile, imagescanner and OCR.

The device contains a row of 2048 elements photodiodes which provide a 8 lines / mm (200 DPI) across a B4 size paper. The device is operated by 5 V (pulse), and 12 V power supply.

Features

- Number of Image Sensing Elements: 2048
- Image Sensing Element Size: 14µm by 14µm on 14µm centers
- > Photo Sensing Region: High sensitive and low voltage dark signal pn photodiode
- Clock: 2 phase (5V)
- Package: 22 pin Cerdip

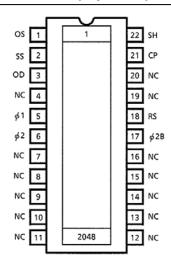
Circuit Diagram



Pin Names

Pin No.	Symbol	Name
1	OS	Signal Output
2	SS	Ground
3	OD	Power
4	NC	Non Connection
5	Ø1	Clock (Phase 1)
6	Ø2	Clock (Phase 2)
7~16	NC	Non Connection
17	Ø2B	Final Stage Clock (Phase 2)
18	RS	Reset Gate
19, 20	NC	Non Connection
21	СР	Clamp Gate
22	SH	Shift Gate

Pin Connections (top view)



» For further information about Toshiba Sensors, please visit http://www.semicon.toshiba.co.jp/eng/product/sensor/index.html

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