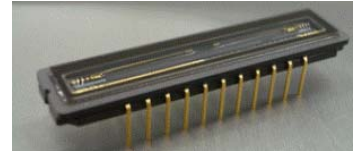


CCD Linear Image Sensor

CCD (Charge Coupled Device)

TCD1305DG

3648-elements, embedded electronic shutter function, for barcode scanner.



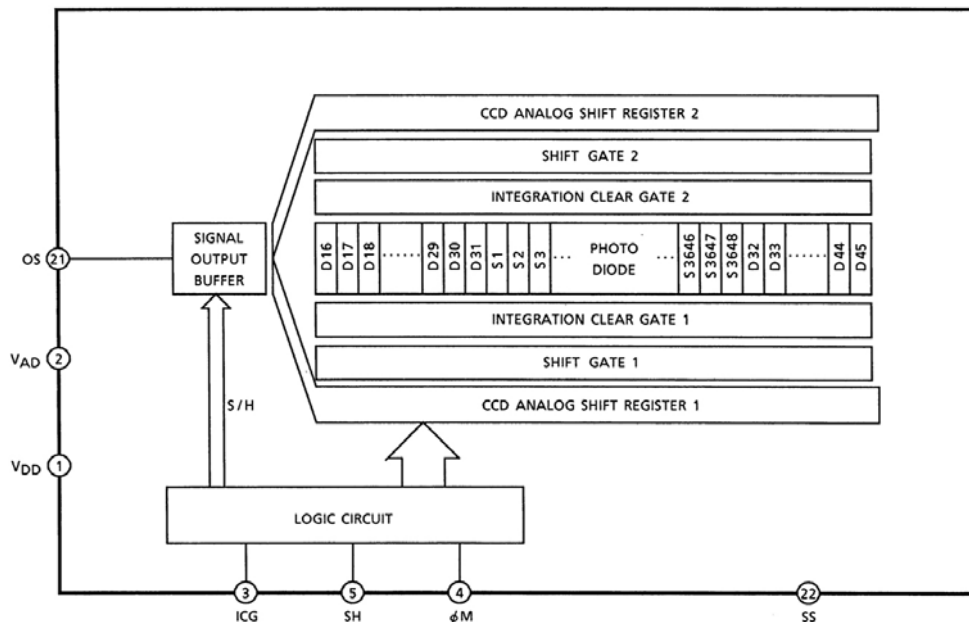
The TCD1305DG is a high sensitive and low dark current 3648-elements linear image sensor. The sensor can be used for POS hand held scanners.

The device is consist of sensitivity CCD chip. The TCD1305DG has electronic shutter function (ICG). Electronic shutter function can keep always output voltage constant that vary with the intensity of lights.

■ Features

- ▶ Number of Image Sensing Elements: 3648
- ▶ Image Sensing Element Size: 8 μ m x 64 μ m
- ▶ Photo Sensing Region: High sensitive and low dark current pn photodiode
- ▶ Internal Circuit: CCD Drive Circuit
- ▶ Power Supply: Only 5.0V Drive
- ▶ Function: Electronic Shutter, Sample and Hold Circuit
- ▶ Package: 22 pin cerdip

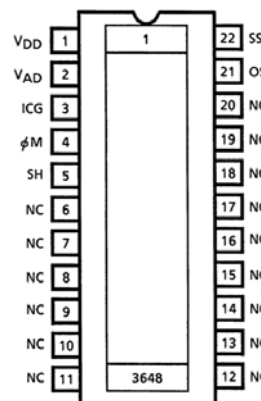
Circuit Diagram



Pin Names

Pin No.	Symbol	Name
1	VDD	Power (Digital)
2	VAD	Power (Analog)
3	ICG	Integration Clear Gate
4	ØM	Master Clock
5	SH	Shift Gate
6~20	NC	Non Connection
21	OS	Output signal
22	SS	Ground

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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