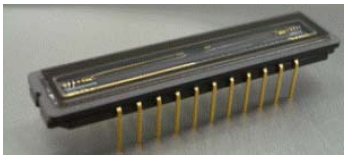
CCD Linear Image Sensor | CCD (Charge Coupled Device)

TCD1205DG

2048-elements, embedded electronic shutter function, for barcode scanner.



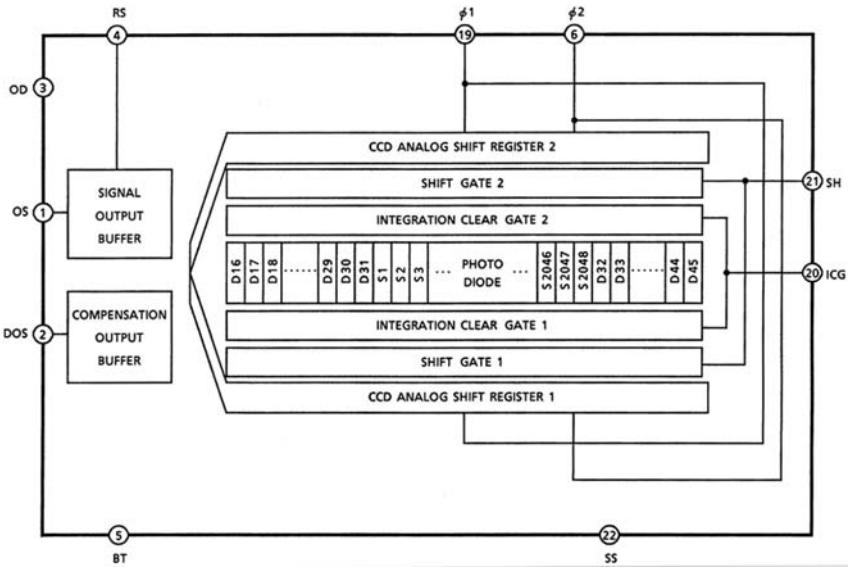


The TCD1205DG is a high sensitive and low dark current 2048−elements linear image sensor. The sensor can be used for POS handscanner.
The device is operated by only 5V power supply, and mounted in 22−pin cerdip package with hermetic sealed optical glass window. The TCD1205DG has electronic shutter function (ICG).
Electronic shutter function can keep always output voltage constant that vary with the intensity of lights.

Features

- Number of Image Sensing Elements: 2048
- Image Sensing Element Size: 14µm by 200µm on 14µm centers
- Photo Sensing Region: High sensitive and low dark current pn photodiode
- Clock: 2 phase (5V)
- Internal Circuit: Electronic shutter function (ICG)
- Package: 22 pin cerdip

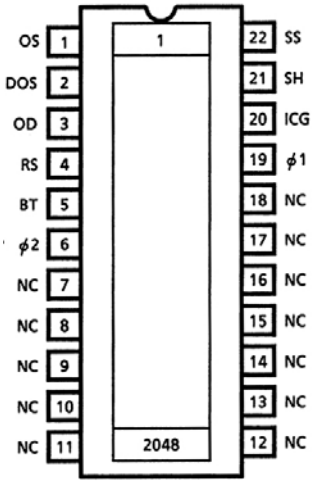
Circuit Diagram



Pin Names

Pin No.	Symbol	Name
1	OS	Signal Output
2	DOS	Compensation Output
3	OD	Power
4	RS	Reset Gate
5	BT	Boost Gate
6	Ø2	Clock (Phase 2)
7 to 18	NC	Non Connection
19	Ø1	Clock (Phase 1)
20	ICG	Integration Clear Gate
21	SH	Shift Gate
22	SS	Ground

Pin Connections (top view)



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