

## TCD1254GFG

2500-elements, embedded electronic shutter function, for barcode scanner.

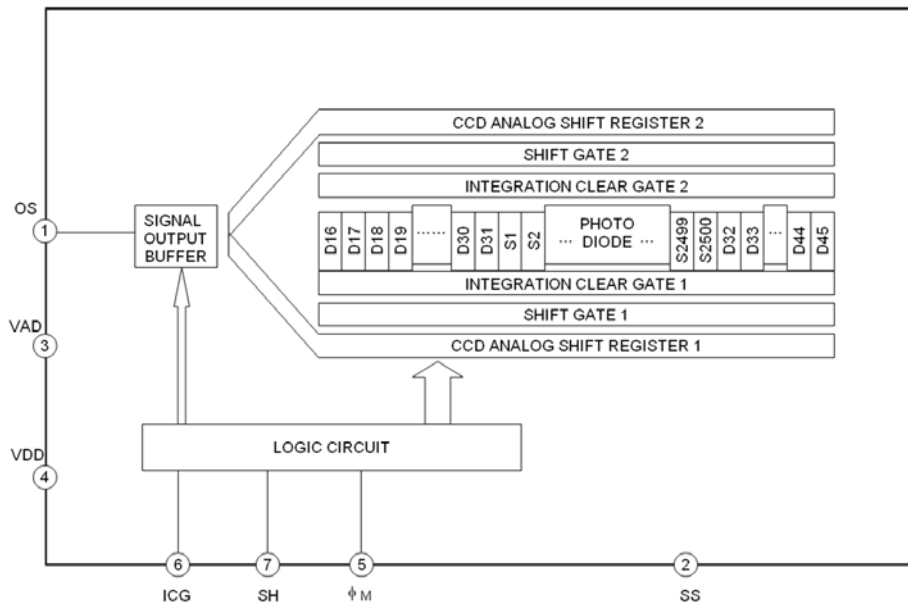


The TCD1254GFG is a high sensitive and low dark current 2500-elements linear image sensor. This device consists of sensitivity CCD chip. The TCD1254GFG has electronic shutter function (ICG). Electronic shutter function can keep always output voltage constant that vary with intensity of lights.

### ■ Features

- ▶ Number of Image Sensing Elements: 2500
- ▶ Image Sensing Element Size:  $5.25\mu\text{m} \times 64\mu\text{m}$
- ▶ Photo Sensing Region: High sensitive and low dark current pn photodiode
- ▶ Internal Circuit: CCD Drive Circuit
- ▶ Power Supply: Only 3.0V Drive (Min.)
- ▶ Function: Electronic Shutter, Sample and Hold Circuit
- ▶ Package: 16 pin GLCC

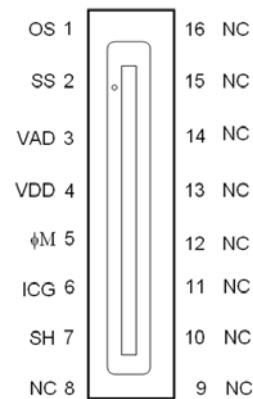
## Circuit Diagram



## Pin Names

Pin No.	Symbol	Name
1	OS	Output signal
2	SS	Ground
3	VAD	Power (Analog)
4	VDD	Power (Digital)
5	∅M	Master clock
6	ICG	Integration clear gate
7	SH	Shift gate
8 to 16	NC	Non connection

## 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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