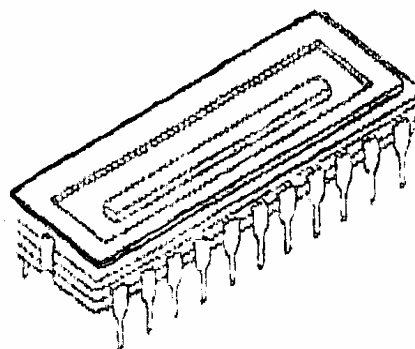


# CDD LINEAR IMAGE SENSOR

# TCD102D

The TCD102D is a high resolution and high sensitivity 2048-element linear image sensor. The sensor is designed for Facsimile readers, optical character Recognition and other optical application ,The device contains a row of 2048 photodiodes which provide a 8 lines/mm resolution across a B4 size paper.



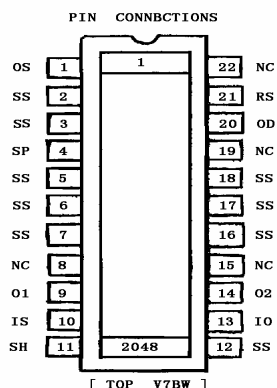
The TCD102D is capable of high speed operation up to a 3MHz data rate and incorporate on chip sample and hold circuitry.

- Number of Image Sensing Elements : 2048
- Image Sensing Element Size : 14pm by 14pm on 14pm centers
- Photo Sensing Region : High sensitive an photodiode
- Clock : 2-phase
- On-ship circuitry : Sample-and-held circuitry
- Dynamic Range : 600(Type)
- Package : 22 pin Cerdip

### MAXIMUM RATINGS (Note 1)

CHARACTERISTIC	SYMBOL	RATLNG	UNLT
Clock pulse voltage	$V_o$	-0.3-1.5	V
Shift pulse voltage	$V_{sh}$		
Reset pulse voltage	$V_{rs}$		
Sample and hold pulse voltage	$V_{sp}$		
Power supply voltage	$V_{op}$		
Input cate voltage	$V_{tg}$		
Input source voltage	$V_{ts}$		
Operating temperature	$T_{opr}$	-25-60	°C
Storage temperature	$T_{stg}$	-40-100	°C

(Note 1) All voltage are with respect to ss terminals.



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