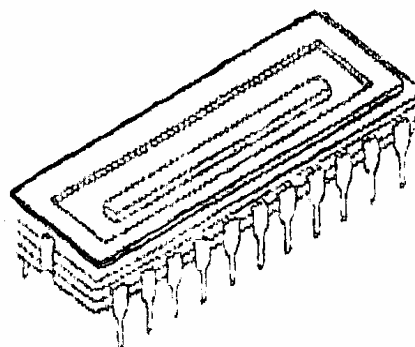


CDD LINEAR IMAGE SENSOR

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 hip sample and hold circuitry.

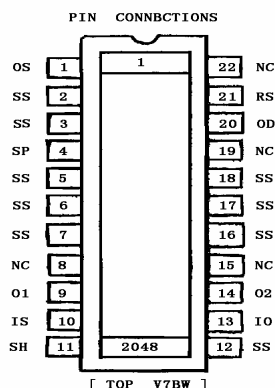


Number of Image Sensing Elements	:	2048
Image Sensing Element Size	:	14pm by 14pm on 14pm centers
Photo Sensing Region	:	High sensitive an photodiode
Clock	:	2-phase
On-ship circuitry	:	Sample-and-held circuitry
Dynamic Range	:	600(Type)
Package	:	22 pin Cerdip

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.



CCD LINEAR IMAGESENSOR SUNSTAR

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