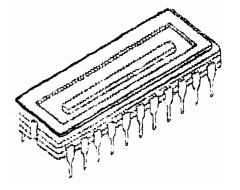
CDD LINEAR IMAGE SENSOR

TCD102D

The TCD102D is a high resolution and high sensitivity 204s-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 date 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

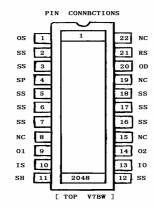
Dynamic Range : 600(Type)

Package : 22 pin Cerdip

MAXIMUM RATINGS (Note 1)

CHARACTERISTIC	SYMBOL	RATLNG	UNLT
Clock pulse voltage	Vo	-0.3-1.5	V
Shift pulse voltage	Vsh		
Reset pulse voltage	Vrs		
Sample and hold pulse voltage	Vsp		
Power supply voltage	Vop		
Input cate voltage	Vtg		
Input source voltage	Vts		
Operating temperature	Topr	-25-60	${\mathbb C}$
Storage temperature	Tstg	-40-100	${\mathfrak C}$

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



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