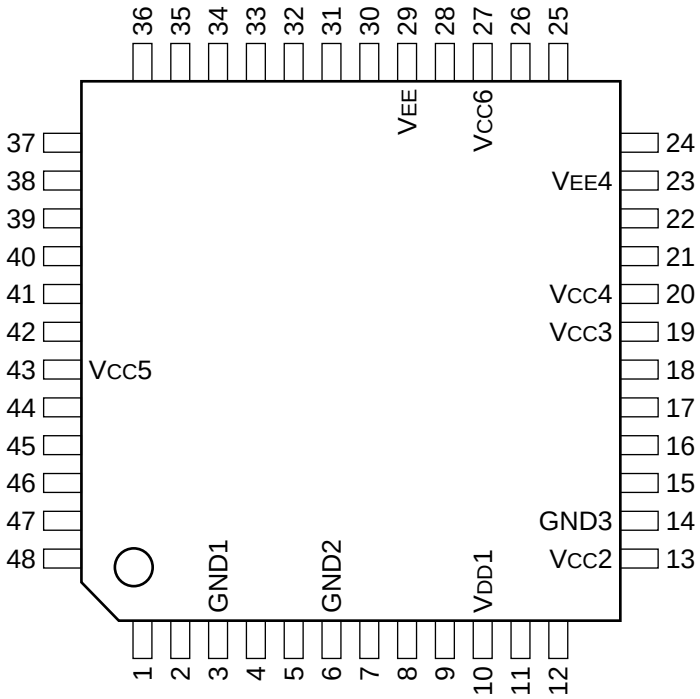
TIMING GENERATOR WITH CCD ELECTRICAL IMAGE STABILIZER CONTROL

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	CLPDM	13	—	$V_{CC}2$	25	O	V2	37	I	SSK
2	O	PBLK	14	—	GND3	26	O	V1	38	I	SSI
3	—	GND1	15	O	XSHP	27	—	$V_{CC}6$	39	I	SEN
4	I	OSCI	16	O	XSHD	28	O	V3	40	I	RST
5	O	OSCO	17	O	XRS	29	—	V_{EE}	41	I/O	XV1
6	—	GND2	18	O	RG	30	—	GND	42	I	DSGAT
7	I	CK	19	—	$V_{CC}3$	31	O	V4	43	—	$V_{CC}5$
8	I	TESTEN	20	—	$V_{CC}4$	32	I/O	XSG1	44	I	AHD
9	O	CCDCKL	21	O	H1	33	I	VSK	45	I	AVD
10	—	$V_{DD}1$	22	O	H2	34	I	VSI	46	—	CKINH
11	O	CCDCKH	23	—	$V_{EE}4$	35	I	VEN	47	O	WEN
12	O	VICK	24	O	SUB	36	I	VGAT	48	O	ID

INPUT

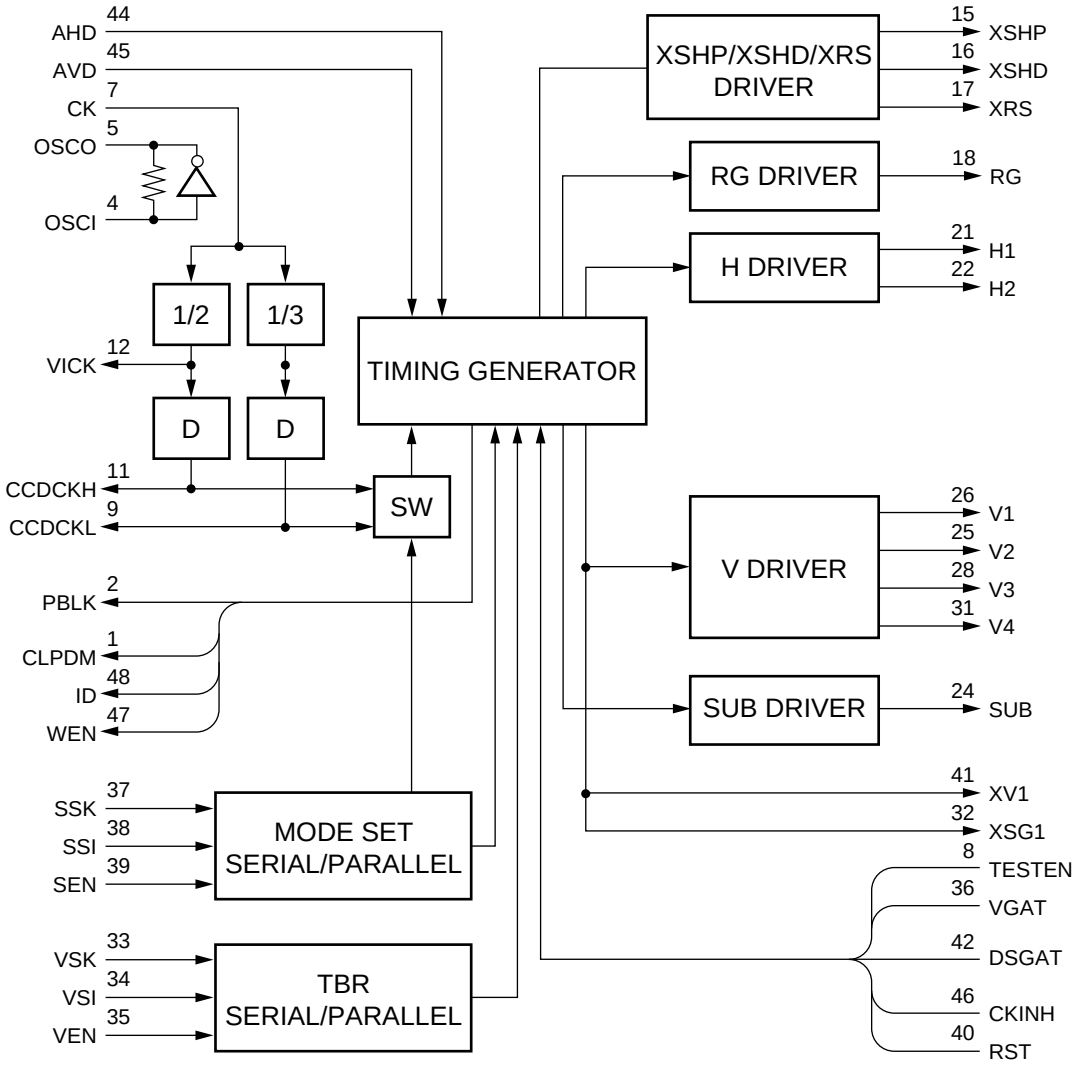
AHD : HORIZONTAL DRIVE
AVD : VERTICAL DRIVE
CK : CLOCK (NTSC : 1820fH, PAL : 1816fH)
DSGAT : SAMPLE HOLD PULSE GENERATOR CONTROL
OSCI : OSCILLATOR (NTSC : 1820fH, PAL : 1816fH)
RST : RESET
SEN : MODE SERIAL INTERFACE STROBE
SSI : MODE SERIAL INTERFACE DATA
SSK : MODE SERIAL INTERFACE CLOCK
TESTEN : IC TEST CONTROL
VEN : VERTICAL SERIAL INTERFACE STROBE
VGAT : CLOCK PULSE WAVEFORM CONTROL
VSI : VERTICAL SERIAL INTERFACE DATA
VSK : VERTICAL SERIAL INTERFACE CLOCK

OUTPUT

CCDCKH : MASTER CLOCK FOR 510H
NTSC/510H : (606+2/3)fH
PAL/510H : (605+1/3)fH
CCDCKL : MASTER CLOCK FOR 760H
NTSC/760H : 910fH
PAL/760H : 908fH
CLPDM : CCD DUMMY SIGNAL CLAMP
H1, H2 : HORIZONTAL REGISTER CLOCK
ID : VERTICAL LINE DISCRIMINATION
MCK : MASTER CLOCK
OSCO : OSCILLATOR (NTSC : 1820fH, PAL : 1816fH)
PBLK : PRE-BLANKING PULSE
RG : RESET GATE PULSE
SUB : SHUTTER PULSE
V1 - V4 : VERTICAL REGISTER CLOCK
VICK : VIDEO FREE RUN CLOCK
VSHP : SAMPLE HOLD PULSE (NTSC : 910fH, PAL : 908fH)
WEN : MEMORY WRITE TIMING
XRS : PHASE ADJUST SAMPLE HOLD PULSE
XSG2 : SENSOR READ CLOCK
XSHD : DATA LEVEL SAMPLE HOLD PULSE
XSHP : PRE-CHARGE LEVEL SAMPLE HOLD PULSE

INPUT/OUTPUT

XSG1 : SENSOR READ CLOCK
XV1 : VERTICAL REGISTER CLOCK


AHD
44
AVD
45
CK
7
OSCO
5
OSCI
4
1/2
1/3
VICK
12
D
D
CCDCKH
11
CCDCKL
9
SW
PBLK
2
CLPDM
1
ID
48
WEN
47
SSK
37
SSI
38
SEN
39
MODE SET
SERIAL/PARALLEL
VSK
33
VSI
34
VEN
35
TBR
SERIAL/PARALLEL
TIMING GENERATOR
XSHP/XSHD/XRS
DRIVER
RG DRIVER
H DRIVER
V DRIVER
SUB DRIVER
15
XSHP
16
XSHD
17
XRS
18
RG
21
H1
22
H2
26
V1
25
V2
28
V3
31
V4
24
SUB
41
XV1
32
XSG1
8
TESTEN
36
VGAT
42
DSGAT
46
CKINH
40
RST