

SED2000F_{VB}

CMOS VFD DRIVER

■ DESCRIPTION

The SED2000F_{VB} is a CMOS LSI dot-matrix vacuum fluorescent display anode and grid driver. It has 40 high-voltage anode outputs in 2 × 20 blocks and 20 high-voltage grid outputs.

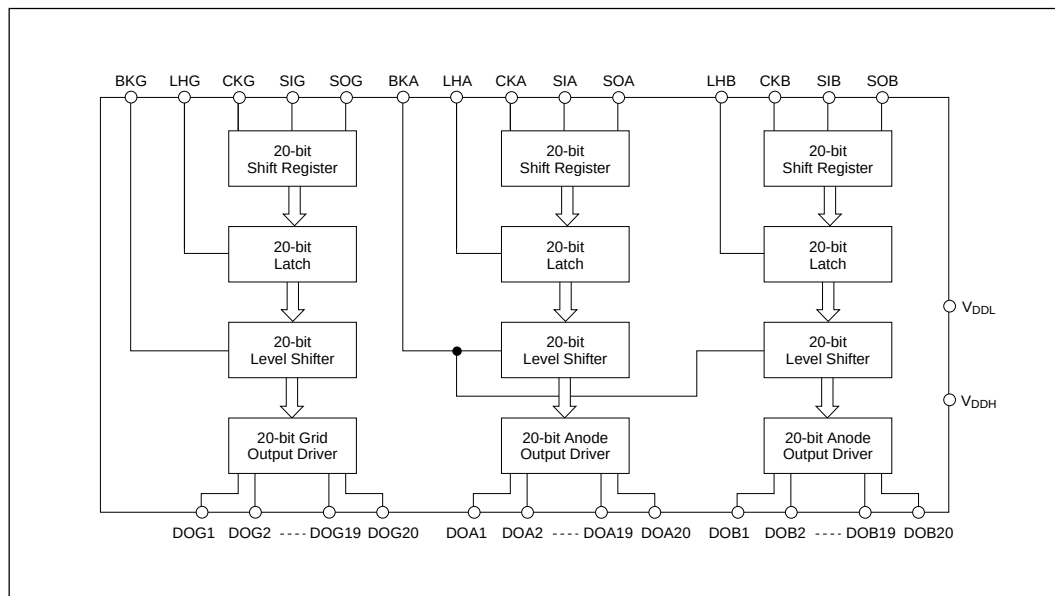
The SED2000F_{VB} has independent serial inputs and outputs for each 20-element block which feature data transfer rates of up to 4 Mbits/s. The daisy-chain serial data transfer system simplifies controller requirements. An automatic shutdown circuit turns off output drivers when power is removed from the logic circuits, simplifying power supply design.

SED2000F_{VB} uses a 5V logic supply and a 30 to 70V display supply, and is available in 80-pin plastic flatpacks.

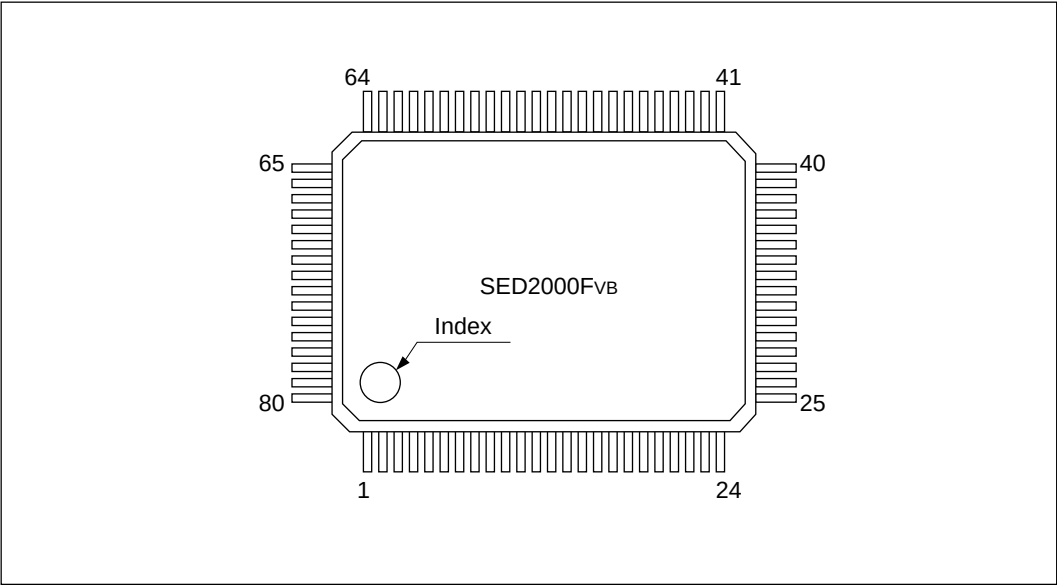
■ FEATURES

- 40 anode and 20 grid output drivers
- 70V, 10mA grid drive capability
- 70V, 2mA anode drive capability
- Automatic shutdown circuit
- Up to 4 Mbits/s serial data transfer rate
- Daisy-chain data transfer system for cascaded operation
- Silicon-gate CMOS technology
- 5V logic supply
- 30 to 70V display supply
- 80-pin plastic flatpack (QFP5-80pin [F_{VB}])

■ BLOCK DIAGRAM



PINOUT



Pin		Pin		Pin		Pin	
Number	Name	Number	Name	Number	Name	Number	Name
1	VDDH	21	DOB2	41	DOA2	61	DOG2
2	NC	22	DOB1	42	DOA1	62	DOG1
3	DOB20	23	DOA20	43	DOG20	63	NC
4	DOB19	24	DOA19	44	DOG19	64	VDDH
5	DOB18	25	DOA18	45	DOG18	65	SIB
6	DOB17	26	DOA17	46	DOG17	66	SOB
7	DOB16	27	DOA16	47	DOG16	67	VDDL
8	DOB15	28	DOA15	48	DOG15	68	BKG
9	DOB14	29	DOA14	49	DOG14	69	LHG
10	DOB13	30	DOA13	50	DOG13	70	SOG
11	DOB12	31	DOA12	51	DOG12	71	SIG
12	DOB11	32	DOA11	52	DOG11	72	CKG
13	DOB10	33	DOA10	53	DOG10	73	BJA
14	DOB9	34	DOA9	54	DOG9	74	LHA
15	DOB8	35	DOA8	55	DOG8	75	SOA
16	DOB7	36	DOA7	56	DOG7	76	SIA
17	DOB6	37	DOA6	57	DOG6	77	CKA
18	DOB5	38	DOA5	58	DOG5	78	VSS
19	DOB4	39	DOA4	59	DOG4	79	LHB
20	DOB3	40	DOA3	60	DOG3	80	CKB