JHD12864E SERIES

CHARACTERISTICS

DISPLAY CONTENT: 128 x 64 DOTS

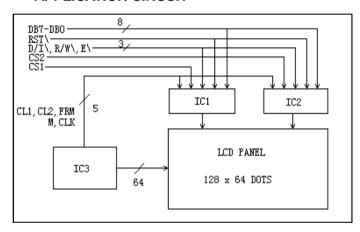
DRIVING MODE: 1/64D AVAILABLE TYPES:

STN(YELLOW GREEN、GREY、B/W) REFLECTIVE、WITH EL OR LED

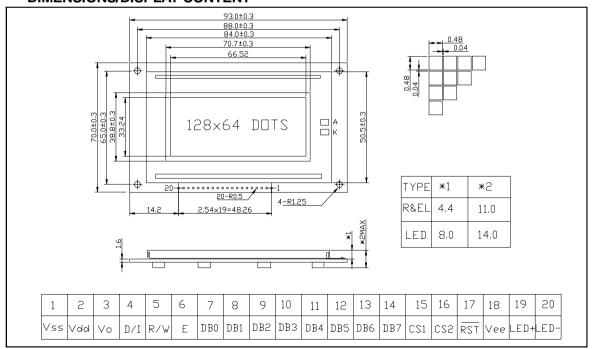
EL/100VAC , 400HZ

LED/4.2VDC

APPLICATION CIRCUIT



DIMENSIONS/DISPLAY CONTENT



LIMIT PARAMETER

PARAMETER	Symbol	Testing Criteria	Standard Values		UNIT
PARAMETER			MIN	MAX	UNIT
Supply Voltage	VDD-VS S		0	6.5	V
LCD Voltage	VDD-V0	Ta=25	0	15.0	V
Input Voltage	V1		0	VDD	V

ELECTRIC PARAMETER

				Standard Values			
PARAMETER		Symbol	Testing Criteria	MIN	Typical	MAX	UNIT
	LOGIC	VDD-Vss	ı	4.75	5.0	5.25	V
Voltage	LCD	VDD-V0	ı	-	13.0	-	V
	LOGIC	IDD	-	-	4.0	-	mΑ
Current	LCD	lee	ı	-	3.0	-	mA
			0	-	14.0	-	V
LCD Drive Voltage			25	-	13.0	-	V
(recommend)			40	-	12.0	-	V
Input	' H ' Level	Vih	High	0.7Vdd	-	Vdd	V
Voltage	' L ' Level	VIIL	Low	0	-	0.3Vpd	V

PIN CONFIGURATION

1 Vss OV Ground contact (GND) 2 Vpd 5.0V Power Supply Voltage 3 Vo LCD Drive Voltage Adjust Contrast 4 D/I H/L H:DATA; L:COMMAND 5 R/W H/L H:READ; L:WRITE 6 E H,H L IC select signal 7 DB0 H/L DATA 0 8 DB1 H/L DATA 1 9 DB2 H/L DATA 2 10 DB3 H/L DATA 3 11 DB4 H/L DATA 4 12 DB5 H/L DATA 5 13 DB6 H/L DATA 6 14 DB7 H/L DATA 7 15 CS1 H Select Signal 1, High effective 16 CS2 H Select Signal 2, High effective 17 RST L RESET signal , low effective 18 Vee -10.0V LCD Drive negative	PIN	SYMBOL	LEVEL	INSTRUCTION
3	1	Vss	0V	Ground contact (GND)
4 D/I H/L H:DATA; L:COMMAND 5 R/W H/L H:READ; L:WRITE 6 E H,H L IC select signal 7 DB0 H/L DATA 0 8 DB1 H/L DATA 1 9 DB2 H/L DATA 2 10 DB3 H/L DATA 3 11 DB4 H/L DATA 4 12 DB5 H/L DATA 5 13 DB6 H/L DATA 6 14 DB7 H/L DATA 7 15 CS1 H Select Signal 1, High effective 16 CS2 H Select Signal 2, High effective 17 RST L RESET signal , low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	2	Vdd	5.0V	Power Supply Voltage
5 R/W H/L H:READ; L:WRITE 6 E H,H L IC select signal 7 DB0 H/L DATA 0 8 DB1 H/L DATA 1 9 DB2 H/L DATA 2 10 DB3 H/L DATA 3 11 DB4 H/L DATA 4 12 DB5 H/L DATA 5 13 DB6 H/L DATA 6 14 DB7 H/L DATA 7 15 CS1 H Select Signal 1, High effective 16 CS2 H Select Signal 2, High effective 17 RST L RESET signal , low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	3	V_0	LCD Drive Voltage	Adjust Contrast
6 E H,H L IC select signal 7 DB0 H/L DATA 0 8 DB1 H/L DATA 1 9 DB2 H/L DATA 2 10 DB3 H/L DATA 3 11 DB4 H/L DATA 4 12 DB5 H/L DATA 5 13 DB6 H/L DATA 6 14 DB7 H/L DATA 7 15 CS1 H Select Signal 1, High effective 16 CS2 H Select Signal 2, High effective 17 RST L RESET signal , low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	4	D/I	H/L	H:DATA ; L:COMMAND
7 DB0 H/L DATA 0 8 DB1 H/L DATA 1 9 DB2 H/L DATA 2 10 DB3 H/L DATA 3 11 DB4 H/L DATA 4 12 DB5 H/L DATA 5 13 DB6 H/L DATA 6 14 DB7 H/L DATA 7 15 CS1 H Select Signal 1, High effective 16 CS2 H Select Signal 2, High effective 17 RST L RESET signal , low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	5	R/W	H/L	H:READ ; L:WRITE
8 DB1 H/L DATA 1 9 DB2 H/L DATA 2 10 DB3 H/L DATA 3 11 DB4 H/L DATA 4 12 DB5 H/L DATA 5 13 DB6 H/L DATA 6 14 DB7 H/L DATA 7 15 CS1 H Select Signal 1, High effective 16 CS2 H Select Signal 2, High effective 17 RST L RESET signal , low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	6	E	H,H L	IC select signal
9 DB2 H/L DATA 2 10 DB3 H/L DATA 3 11 DB4 H/L DATA 4 12 DB5 H/L DATA 5 13 DB6 H/L DATA 6 14 DB7 H/L DATA 7 15 CS1 H Select Signal 1, High effective 16 CS2 H Select Signal 2, High effective 17 RST L RESET signal , low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	7	DB0	H/L	DATA 0
10 DB3 H/L DATA 3 11 DB4 H/L DATA 4 12 DB5 H/L DATA 5 13 DB6 H/L DATA 6 14 DB7 H/L DATA 7 15 CS1 H Select Signal 1, High effective 16 CS2 H Select Signal 2, High effective 17 RST L RESET signal , low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	8	DB1	H/L	DATA 1
11 DB4 H/L DATA 4 12 DB5 H/L DATA 5 13 DB6 H/L DATA 6 14 DB7 H/L DATA 7 15 CS1 H Select Signal 1, High effective 16 CS2 H Select Signal 2, High effective 17 RST L RESET signal , low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	9	DB2	H/L	DATA 2
12 DB5 H/L DATA 5 13 DB6 H/L DATA 6 14 DB7 H/L DATA 7 15 CS1 H Select Signal 1, High effective 16 CS2 H Select Signal 2, High effective 17 RST L RESET signal , low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	10	DB3	H/L	DATA 3
13 DB6 H/L DATA 6 14 DB7 H/L DATA 7 15 CS1 H Select Signal 1, High effective 16 CS2 H Select Signal 2, High effective 17 RST L RESET signal , low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	11	DB4	H/L	DATA 4
14DB7H/LDATA 715CS1HSelect Signal 1, High effective16CS2HSelect Signal 2, High effective17RSTLRESET signal , low effective18VEE-10.0VLCD Drive negative voltage19LED+Back LED Anode	12	DB5	H/L	DATA 5
15 CS1 H Select Signal 1,High effective 16 CS2 H Select Signal 2,High effective 17 RST L RESET signal , low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	13	DB6	H/L	DATA 6
16 CS2 H Select Signal 2,High effective 17 RST L RESET signal , low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	14	DB7	H/L	DATA 7
17 RST L RESET signal, low effective 18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	15	CS1	Н	Select Signal 1,High effective
18 VEE -10.0V LCD Drive negative voltage 19 LED+ Back LED Anode	16	CS2	Н	Select Signal 2,High effective
19 LED+ Back LED Anode	17	RST	L	RESET signal, low effective
	18	VEE	-10.0V	LCD Drive negative voltage
20 LED- Back LED Negative	19	LED+		Back LED Anode
	20	LED-		Back LED Negative