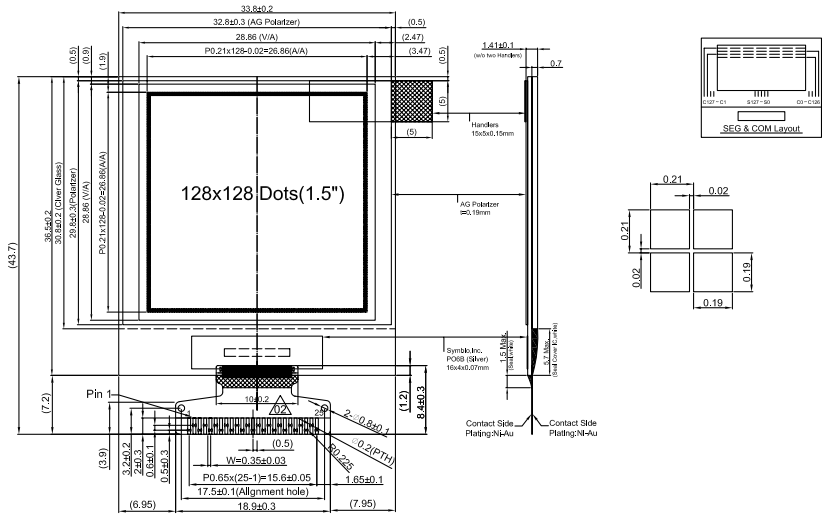
HDR128128-Y/W

128 X 128 Dots Graphic,Yellow/White OLED Display

Dimensional Drawing



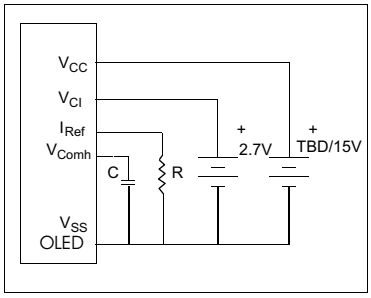
Features

Viewing Angle.....Wide (160 degrees)
High Contrast.....2000:1
Fast Response Time.....10 usec
Built-in DC-DC Converter
Built-in Controller.....SSD1327

Physical Data

Module Size.....33.8W x43.7H x 1.41T mm
Viewing Area Size.....28.86W x 28.86H mm
Dot Pitch.....0.21W x 0.21H mm
Dot Size.....0.19W x 0.19H mm
Weight.....TBD

Power Supply



Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	VCI	-0.3	3.5/4	V
SUPPLY VOLTAGE	VCC	8/8	18/19	V
INPUT VOLTAGE	V_{IN}	-0.3	V_{DD} +0.3	V
OPERATING TEMPERATURE	T_{OP}	-40	70	°C
STORAGE TEMPERATURE	T_{STG}	-40	85	°C
LIFE TIME Y/W (80/100 cd/m^2)		TBD/(12/10K)		HrsT

Electrical Characteristics (VCC=TBD/15 ±5% 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
OPERATING VOLTAGE	VCI	-	2.6	2.7	3.5	V
OPERATING VOLTAGE Y/W	VCC	-	TBD/14.5	TBD/15	TBD/15.5	V
INPUT HIGH VOLTAGE	V_{IH}	-	0.8*V_{CI}	-	V_{CI}	V
INPUT LOW VOLTAGE	V_{IL}	-	0	-	0.2V_{CI}	V
OPERATING CURRENT	I_{CI}	All pixels on	-	TD/600	-	uA
OPERATING CURRENT	I_{CC}	All pixels on	-	TBD/32	TBD/34	mA
POWER CONSUMPTION	P_D	All pixels on	-	TD/480	TBD/510	mW
BRIGHTNESS	L	Average	TBD/70	TBD/90	-	cd/m^2
DRIVE METHOD	1/64 Duty					

Pin Connections

PIN NO.	SYMBOL	FUNCTION	
1	VSS	I	Ground Pin
2	VCC	I	Power Supply for OLED driver
3	VCOMH	I	COM Deselected Voltage Level
4	GPIO	H/L	General I/O Port
5	VCI	I	Power Supply Input
6	VDD	I	Power Supply for internal logic
7	Bs1	H/L	MCU interface selection input
8	Bs2	H/L	MCU interface selection input
9	VSS	I	Ground Pin
10	IREF	I	Reference input (connect recom. Res. R)
11	CS#	L	Chip select input
12	RES#	L	Hardware reset input
13	D/C#	H/L	Data-command control input
14	WR#	L	Write data input
15	RD#	L	Read data input
16	D0	H/L	Bi-directional data bus
17	D1	H/L	Bi-directional data bus
18	D2	H/L	Bi-directional data bus
19	D3	H/L	Bi-directional data bus
20	D4	H/L	Bi-directional data bus
21	D5	H/L	Bi-directional data bus
22	D6	H/L	Bi-directional data bus
23	D7	H/L	Bi-directional data bus
24	VCC	I	Power Supply for logic
25	VSS	I	Ground Pin

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