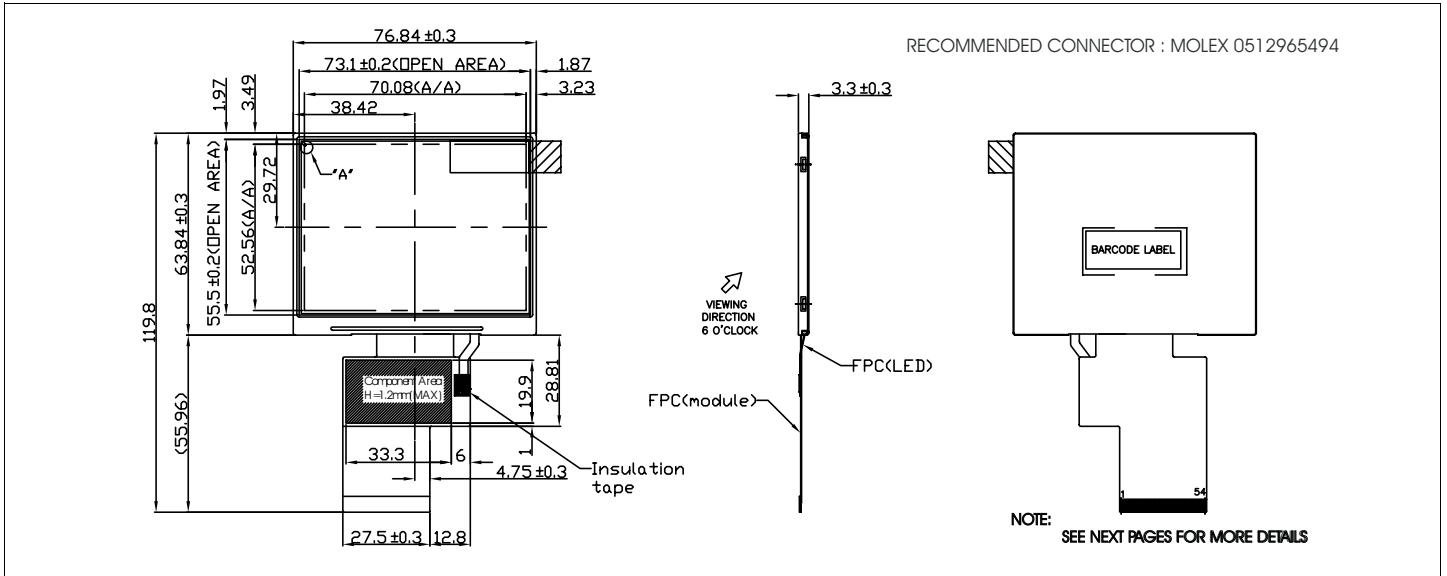


# HDA351-LV

## Dimensional Drawing

3.5" , QVGA (TFT) Color Graphics , Landscape , White LED Backlight



### Features

- Viewing Angle(horizontal).....140 degrees
- High Contrast.....450:1
- Fast Response Time.....50 msec
- Built-in Controller.....none
- Touch Screen.....optional

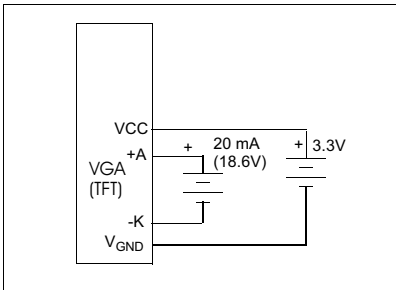
### Physical Data

- Module Size.....76.9W x63.9H x3.3T mm
- Active Area Size.....70.08W x52.56 H mm
- Dot Pitch.....0.073W x 0.219H mm
- Weight.....32g

### Electrical Characteristics (VDD=3.3±0.125V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
OPERATING VOLTAGE	V <sub>CC</sub>	-	2.5	3.3	3.6	V
OPERATING VOLTAGE	V <sub>LED</sub>	I = 20 mA	-	18.6	-	V
INPUT HIGH VOLTAGE	V <sub>IH</sub>	-	0.8*V <sub>DD</sub>	-	V <sub>DD</sub>	V
INPUT LOW VOLTAGE	V <sub>IL</sub>	-	0	-	0.2*V <sub>DD</sub>	V
OPERATING CURRENT	I <sub>CC</sub>	V <sub>CC</sub> = 3.3 V	-	15.6	22.0	mA
OPERATING CURRENT LED	I <sub>LED</sub>	-	-	20	-	mA
POWER CONSUMPTION	P <sub>D</sub>	-	-	424	-	mW
BRIGHTNESS	L	Average	300	350	-	Cd/m <sup>2</sup>

### Power Supply



### Pin Connections

PIN NO.	SYMBOL	FUNCTION	
1	LED-K	-	Backlight LED (-)
2	LED-K	-	Backlight LED (-)
3	LED-A	-	Backlight LED (+)
4	LED-A	-	Backlight LED (+)
5	NC	-	No Connection
6	NC	-	No Connection
7	POL	-	Test Pin . No Connection
8	RESET	L	Reset Input
9	NC	-	No Connection
10	NC	-	No Connection
11	NC	-	No Connection
12-19	D20-D27	H/L	Blue Data Inputs
20-27	D10-D17	H/L	Green Data Inputs
28-35	D00-D07	H/L	Red Data Inputs
36	HSYNC	H	Horizontal Sync Input
37	VSYNC	H	Vertical Sync Input
38	DOICLK	H/L	Data Clock Input
39	NC	-	No Connection
40	NC	-	No Connection
41	VCC	-	Power (+3.3V)
42	VCC	-	Power (+3.3V)
43	NC	-	No Connection
44	NC	-	No Connection
45	NC	-	No Connection
46	NC	-	No Connection
47	NC	-	No Connection
48	NC	-	No Connection
49	NC	-	No Connection
50	NC	-	No Connection
51	NC	-	No Connection
52	NC	-	No Connection
53	GND	-	Ground Pin
54	GND	-	Ground Pin

### Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V <sub>CC</sub>	-0.3	5.0	V
BACKLIGHT CURRENT(White LED)	I <sub>LED</sub>	-	30	mA
INPUT VOLTAGE	V <sub>IN</sub>	-0.3	V <sub>DD</sub> + 0.3	V
OPERATING TEMPERATURE	T <sub>OP</sub>	-20	+70	°C
STORAGE TEMPERATURE	T <sub>STG</sub>	-30	+80	°C



