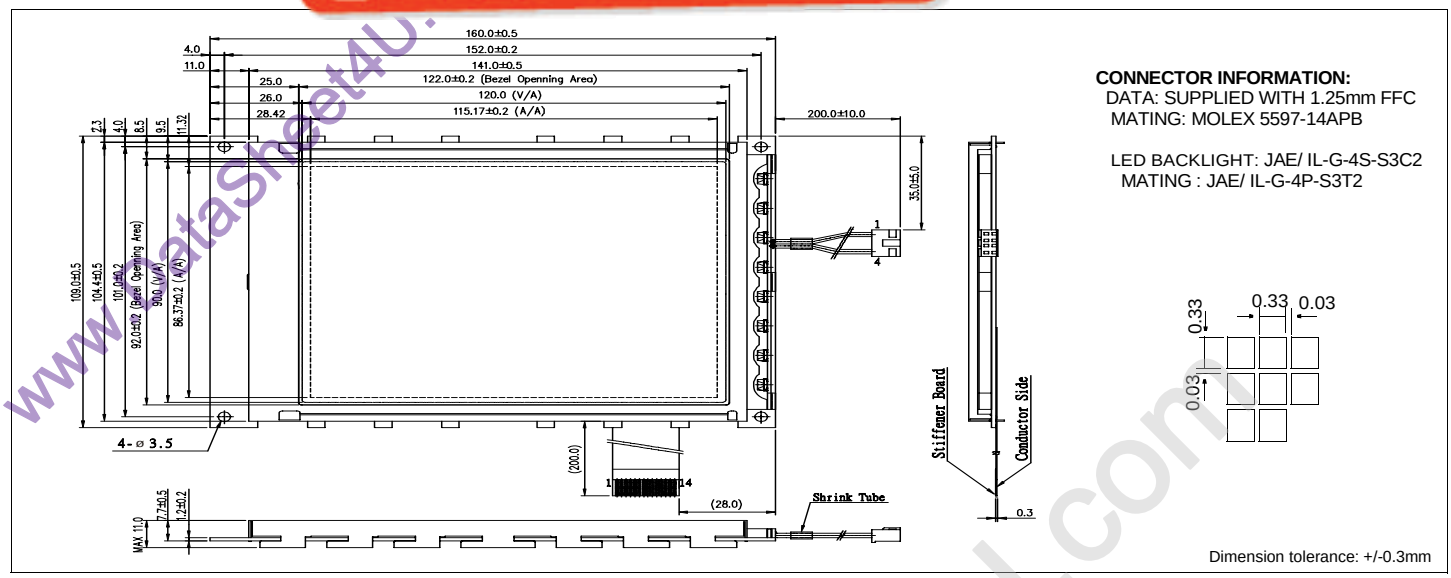
液晶之友 电话：020-33819057
Http://www.lcdfriends.com

HDM 3224L-1

Dimensional Drawing

320 X 240 Dots Graphic LED Backlight



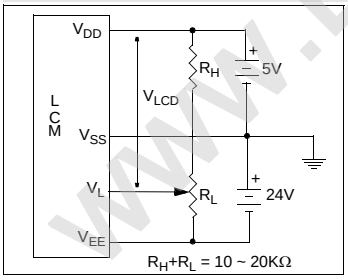
Features

Backlight.....White LED
Options.....STN/ Black and White FSTN
Normal/Extended Temperature
Bottom / Top Viewing
Built-in Controller.....None

Physical Data

Module Size.....160.0W x 109.0H x 11.0T mm
Viewing Area Size.....122.0W x 92.0H mm
Dot Pitch.....0.36W x 0.36H mm
Dot Size.....0.33W x 0.33H mm
Weight.....199g

Power Supply



Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V_{DD}-V_{SS}	0	7.0	V
SUPPLY VOLTAGE FOR LCD	V_{DD}-V_{EE}	0	30.0	V
INPUT VOLTAGE	V_{IN}	-	V_{DD}+0.3	V
OPERATING TEMPERATURE	T_{OP}	0	50	°C
STORAGE TEMPERATURE	T_{STG}	-20	70	°C

Electrical Characteristics (VDD=5.0±0.25V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
SUPPLY VOLTAGE	V_{DD}	-	4.5	5.0	5.5	V
	V_{LCD}	-	22.8	23.1	23.4	V
SUPPLY CURRENT	I_{DD}	FLM=70Hz V_{LCD}=23.1V	-	4.51	6.77	mA
	I_{EE}		-	3.85	5.78	mA
BRIGHTNESS	L	All Dots on	-	4.51	6.77	cd/m^2
		All Dots off	-	3.85	5.78	
LED FORWARD VOLTAGE	V_{AK}	I_{AK}=150mA	4.6	5	5.4	V
LED FORWARD CURRENT	I_{AK}	V_{AK}=5V	-	150	160	mA
DRIVE METHOD	1/240 DUTY					

Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION
DATA CONNECTOR			
1	D0	H/L	Display Data
2	D1		
3	D2		
4	D3		
5	DISPOFF	H/L	H=On, L=Off
6	FRAME	H	First Line Marker
7	NC	-	No Connection
8	LOAD	H/L	Data Latch
9	CP	H/L	Data shift
10	V_{DD}	5V	Power supply for logic
11	V_{SS}	0V	Ground
12	V_{EE}	-22V	Power supply for LCD
13	V_L	-	Operating voltage for LC
14	FGND	-	Front panel ground
LED Backlight CONNECTOR			
1	A	-	Power supply for LED
2	NC	-	No Connection
3	NC	-	No Connection
4	K	-	Ground

www.DataSheet4U.com