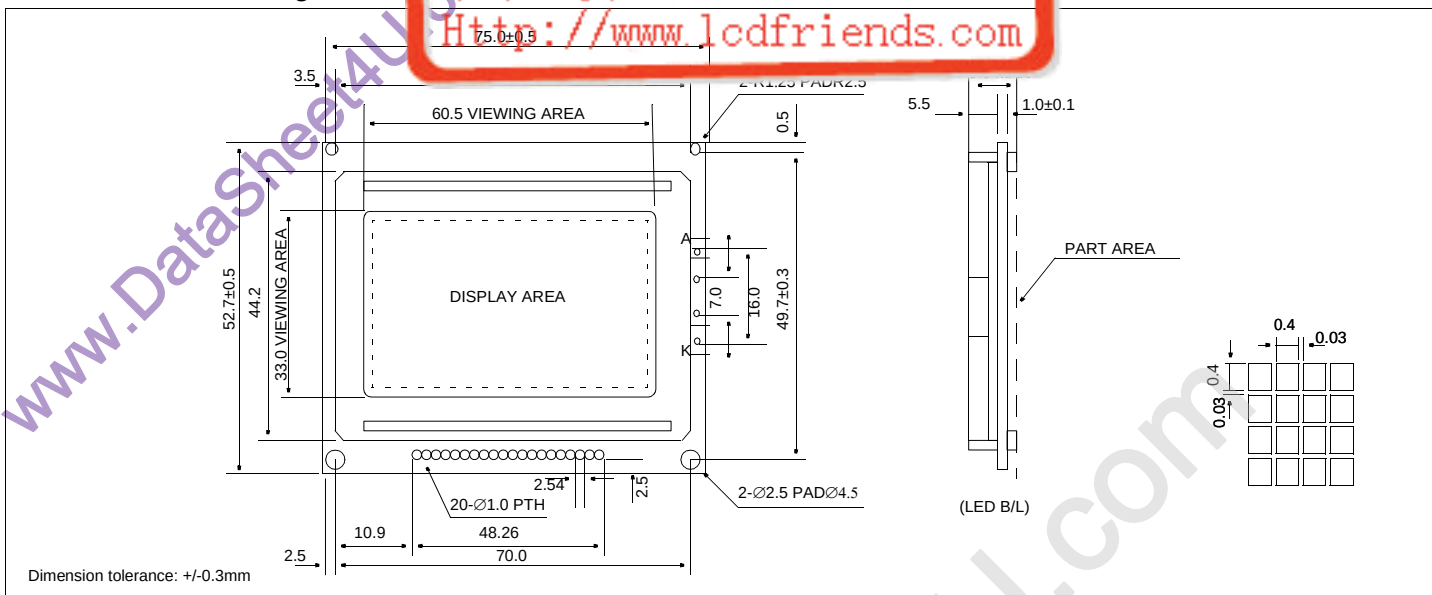


HDM64GS12L-5

Dimensional Drawing

液晶之友 电话: 020-33819257 128 X 6
[Http://www.lcdfriends.com](http://www.lcdfriends.com)

128 X 64 Dots Graphic with LED Backlight



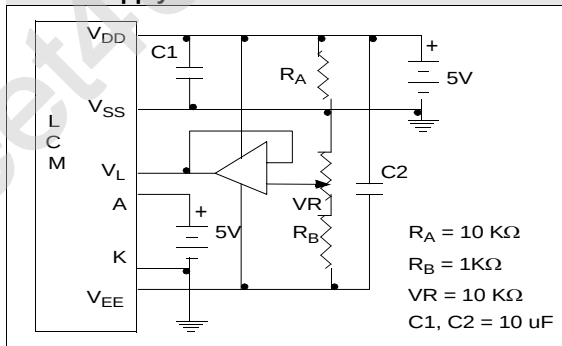
Features

Backlight.....	LED
Options.....	Gray or Yellow STN, Black & White FSTN
	Normal/Extended Temperature
	Bottom / Top Viewing
Built-in Controller.....	Samsung KS0108
Built-in DC-DC converter	

Physical Data

Module Size	75.0W x 52.7H x 9.0T mm
Viewing Area Size.....	60.5W x 33.0H mm
Dot Pitch.....	0.43W x 0.43H mm
Dot Size.....	0.40W x 0.40H mm
Weight.....	35.6g

Power Supply



Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
Supply Voltage	$V_{DD}-V_{SS}$	0	7.0	V
Input Voltage	V_{IN}	-	7.0	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
Input High Voltage	V _{IH}	-	.7 V _{DD}	-	V _{DD}	V
Input Low Voltage	V _{IL}	-	-	-	.3 V _{DD}	V
Power Supply Voltage	V _{DD} -V _L	V _{DD} =5.0V	8.0	9.0	10.0	V
Power Supply Current	I _{DD}	V _{DD} =5.0V	-	3.8		mA
LED Forward Voltage	V _F	-	-	4.2	4.6	V
LED Forward Current	I _F	V _F =4.2V	-	100	200	mA
LED Power Dissipation	P _D	-	-	420		mW
BRIGHTNESS	L	I _F =100mA	-	60		cd/m ²
DRIVE METHOD	1/64 Duty					

Pin Connections

PIN NO.	SYMBOL	FUNCTION	
1	V _{SS}	0V	Ground
2	V _{DD}	5V	Power supply for logic
3	V _L	-	Operating voltage for LC
4	D/I	H/L	1 = Data, 0 = Instruction
5	R/W	H/L	1 = Data read, 0 = Data write
6	E	H/H->L	Enable
7	DB0	H/L	Data bus
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	CS1	H	Left Half Chip select
16	CS2	H	Right Half Chip Select
17	RStb	L	Reset
18	V _{EE}	Output	#
19	A	-	LED Anode
20	K	-	LED Cathode

- # Has built-in inverter for negative power supply