

HDM 64GS24_2

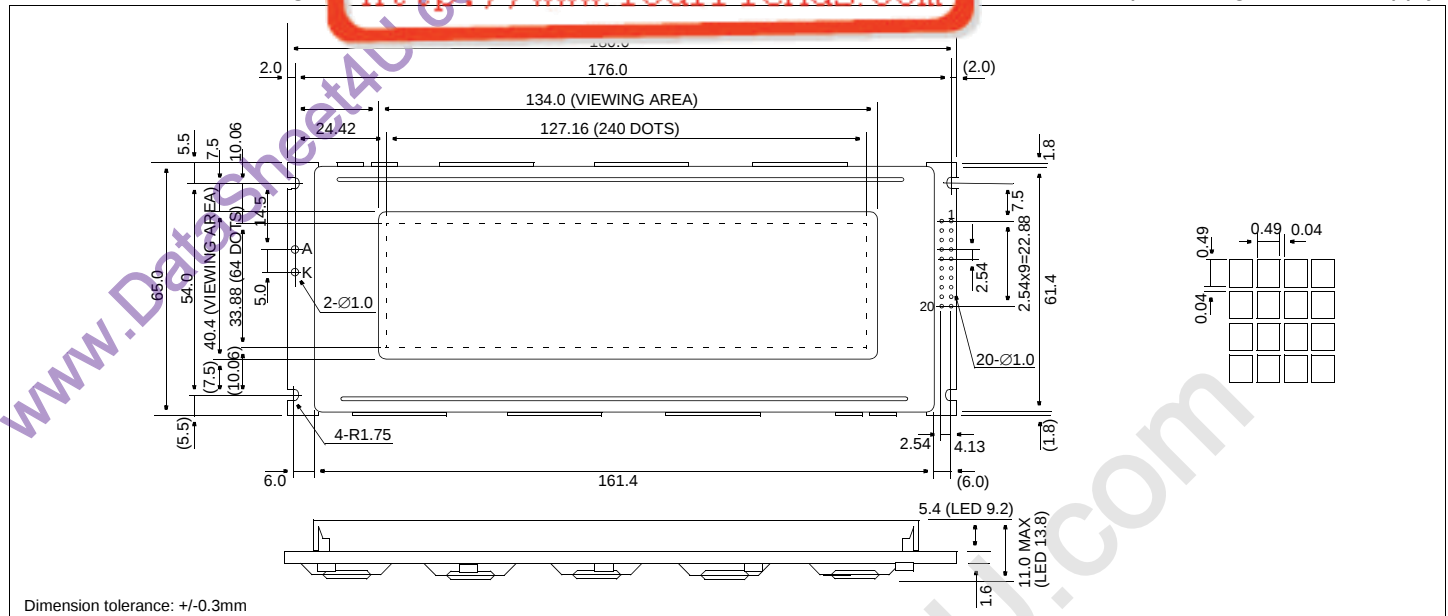
Dimensional Drawing

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Http://www.lcdfriends.com

240

64 Dots Graphic, Single Power Supply



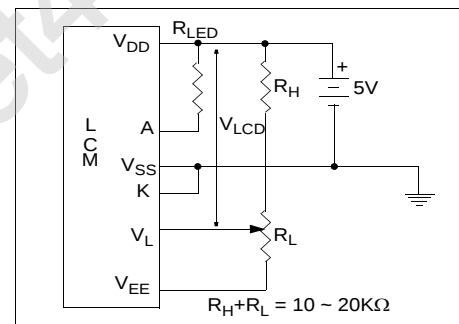
Features

Backlight.....(White) LED, EL or None Optional
Options.....FSTN, Gray or Yellow STN
Normal/ Extended Temperature
Bottom/ Top Viewing
Built-in Controller.....Toshiba T6963C

Physical Data

Module Size.(None or EL backlight) 180.0W x 65.0H x 11.0T mm
(LED backlight) 180.0W x 65.0H x 13.8T mm
Viewing Area Size.....134.0W x 40.4H mm
Dot Pitch.....0.53W x 0.53H mm
Dot Size.....0.49W x 0.49H mm

Power Supply



Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	$V_{DD}-V_{SS}$	-0.3	7.0	V
INPUT VOLTAGE	V_{IN}	-0.3	$V_{DD} + 0.3$	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
OPERATING VOLTAGE	V_{DD}	-	4.5	5.0	5.5	V
POWER SUPPLY CURRENT	I_{DD}	$V_{DD} = 5.0V$	-	9.84	-	mA
POWER SUPPLY VOLTAGE	V_L	$T_a = 25^\circ\text{C}$	-	11.8	-	V
LED Forward Voltage (White)	V_F	$I_F = 80\text{mA}$	3.2	3.4	3.8	V
(Yellow)		$I_F = 675\text{mA}$	-	4.1	-	V
LED Forward Current (White)	I_F	$V_F = 3.4V$	-	80	100	mA
(Yellow)		$V_F = 4.1V$	-	675	-	mA
DRIVE METHOD	1/64 Duty					

Pin Connections

PIN NO.	SYMBOL	FUNCTION	
1	FG	Frame ground	
2	V_{SS}	0V	Ground
3	V_{DD}	5V	Power supply for logic
4	V_L	-	Operating voltage for LC
5	WR	L	Data write
6	RD	L	Data read
7	CE	L	Chip enable
8	CD	H/L	H= Command, L= Data
9	V_{EE}	Output #	
10	RESET	L	Reset
11	DB0	H/L	Data bus
12	DB1	H/L	
13	DB2	H/L	
14	DB3	H/L	
15	DB4	H/L	
16	DB5	H/L	
17	DB6	H/L	
18	DB7	H/L	
19	FS	H/L	Font select
20	N/C	No connection	

Has built-in inverter for negative power supply