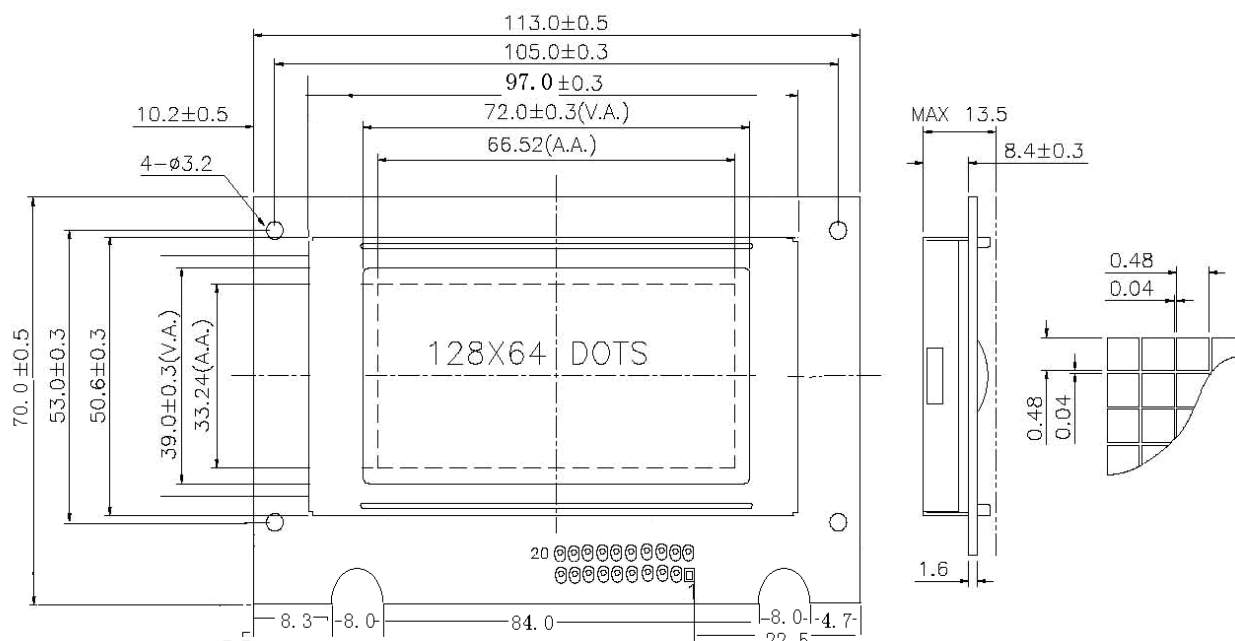


GDM12864E-TZ 128*64dots With blue display low voltage for 3.3V



ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V _{DD} -V _{SS}	-0.3	7	V
Supply Voltage(LCD)	V _{DD} -V _{SS}	-0.3	19	V
Input Voltage	V _I	-0.3	V _{DD} + 0.3	V
Operating Temp.	T _{opr}	-20	70	°C
Storage Temp.	T _{stg}	-30	80	°C

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	113.0 x 70.0 x 13.5	mm
Viewing Area (W x H)	72.0 x 39.0	mm
Dot Pitch (W x H)	0.52 x 0.52	mm
Dot Size (W x H)	0.48 x 0.48	mm
Weight	Approx. 75	g

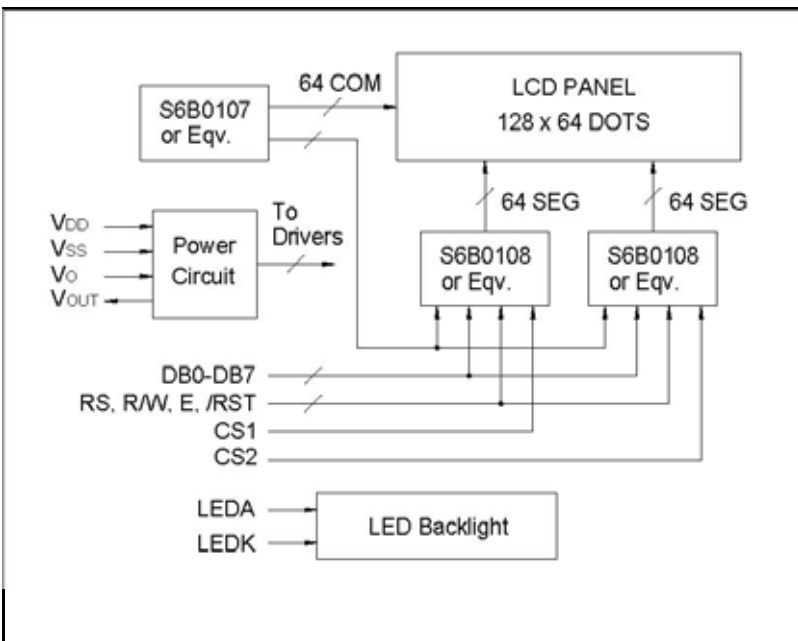
ELECTRICAL CHARACTERISTICS (V =5V± 0.25V)

Item	Symbol	Condition Test	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}		2		V _{DD}	V
Input Low Voltage	V _{IL}		-0.3		0.8	V
Output High Voltage	V _{OH}	= -0.2mA _{I_{OH}}	2.4		V _{DD}	V
Output Low Voltage	V _{OL}	= 1.6mA _{I_{OL}}	0		0.4	V
Supply Current	DDI	V _{DD} = 5.0V		6	8	mA
LCD Driving Voltage	-V _{VDD} O	T _a =25°C		11.7		V

INTERFACE DEFINITION

Pin	Symbol	Level	Function
1	LED A	+3.3V	Power supply for LED backlight
2	V _{DD}	+3.3V	Power supply for logic
3	V _O		Operating voltage for LCD
4	DB0	H/L	Data bus
5	DB1	H/L	
6	DB2	H/L	
7	DB3	H/L	
8	DB4	H/L	
9	DB5	H/L	
10	DB6	H/L	
11	DB7	H/L	
12	E	H, H > L	Enable signal
13	CS1	H	Chip selection for IC1. Active "H".
14	CS2	H	Chip selection for IC2. Active "H".
15	/RST	L	
16	RS	H/L	L : Instruction code H : Data
17	R/W	H/L	L : Write H : Read
18	V _{OUT}	-10V	Output voltage for LCD driving
19	V _{SS}	0V	Power supply for ground
20	LEDK	0V	Power supply for LED backlight

BLOCK DIAGRAM



LED BACKLIGHT SPECIFICATIONS(TA=25)

item	Symbol	Typ.	Max.	Unit
Forward Voltage	V _f	3.1	3.3	V
Forward Current	I _f	60	--	mA
LED Color		White		