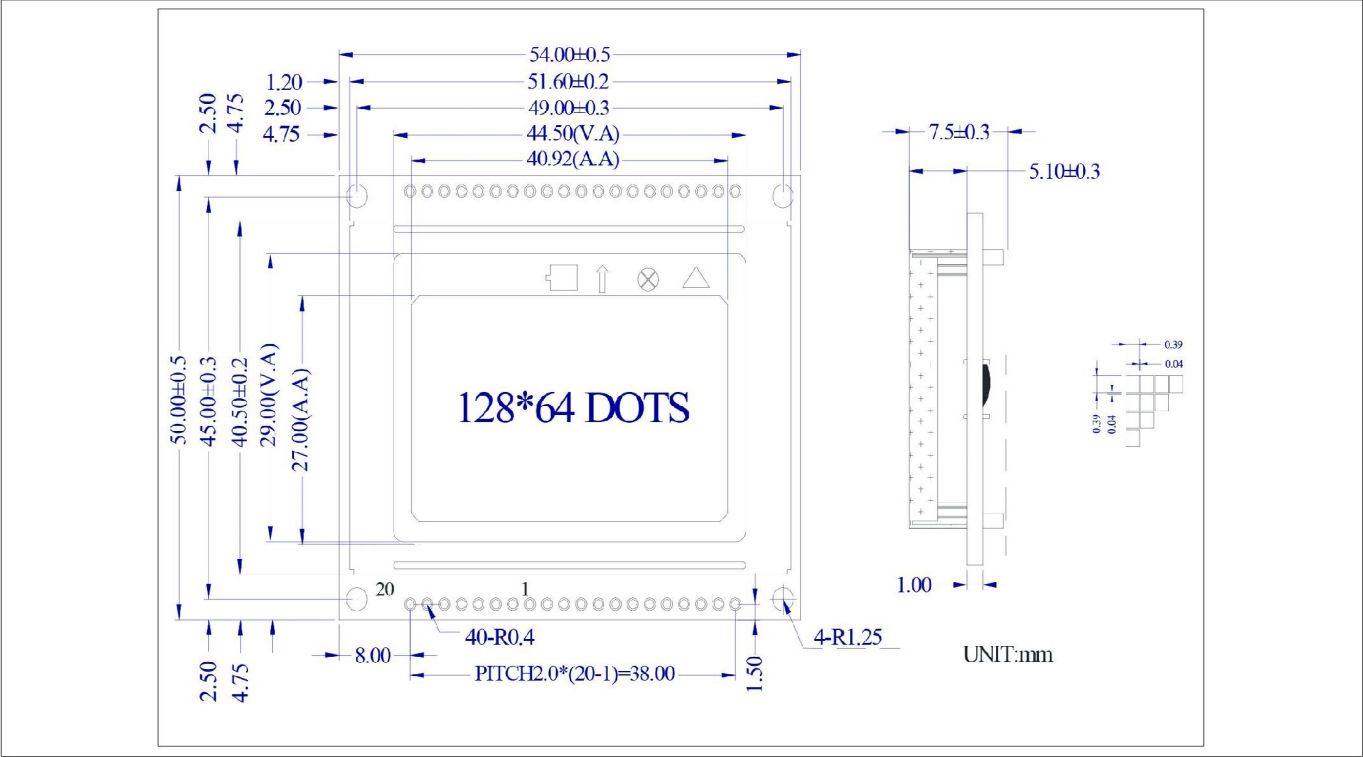




ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V _{DD} - V _{SS}	2.4	3.5	V
Supply Voltage(LCD)	V _{DD} - V _O	7.5	13.5	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)	54.0 x 50.0 x 7.5	mm
Viewing Area (W x H)	44.5 x 29.0	mm
Dot Pitch (W x H)	0.43x 0.43	mm
Dot Size (W x H)	0.39 x 0.39	mm
Weight	Approx. 25	g

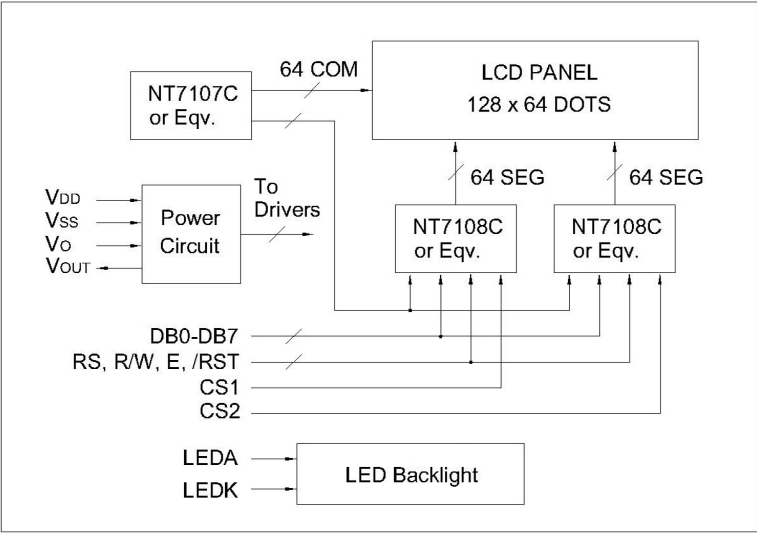
ELECTRICAL CHARACTERISTICS (V_{DD}=5V±0.5V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	--	2.2	--	V _{DD}	V
Input Low Voltage	V _{IL}	--	-0.3	--	0.6	V
Output High Voltage	V _{OH}		2.4	--	--	V
Output Low Voltage	V _{OL}		--	--	0.4	V
Supply Current	I _{DD}	V _{DD} = 5.0V	--	--	1.2	mA
LCD Driving Voltage	V _{DD} - V _O	T _a =25°C	--	9.5	--	V

PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V _{SS}	0V	GND
2	V _{DD}	3.3(5.0)V	Standard 3.3V, 5.0V as option
3	V _O	--	Operating voltage for LCD
4	RS	H/L	H : Data L : Instruction code
5	R/W	H/L	H : Read L : Write
6	E	H,H→L	Enable signal
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/L	Chip selection for IC1. Active "H".
16	CS2	H/L	Chip selection for IC2. Active "H".
17	/RST	--	Reset signal. To VDD or Open
18	V _{OUT}	--	Output voltage for LCD driving
19	LEDA	3.3(5.0)V	Standard 3.3V, 5.5V as option
20	LEDK	0V	

BLOCK DIAGRAM



LED BACKLIGHT SPECIFICATIONS (T_a=25° C)

Item	Symbol	Typ.	Max.	Unit
Forward Voltage	V _f	3.3	3.5	V
Forward Current	I _f	45	60	mA
LED Color		White		