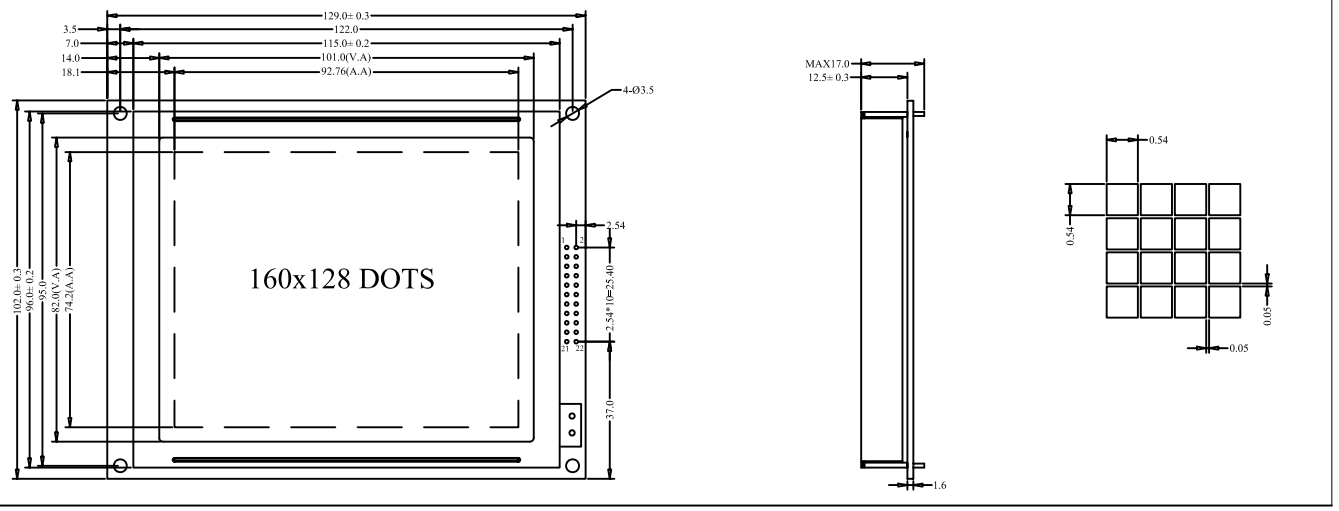
TVG160128-1 (160x128 DOTS) 1/128DUTY, 1/12BIAS

1.DIMENSION OUTLINE



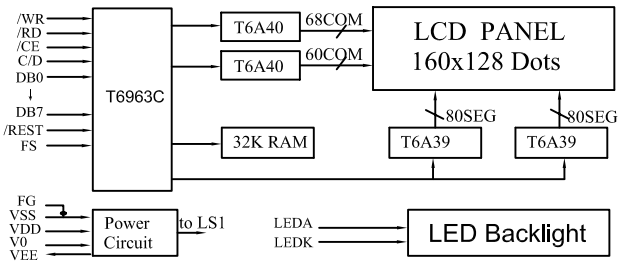
2.MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	REMARK
Module Size(L×W×H)	129.0×102.0×17.0	mm	Reference Dimensional Outline
View Area(W×H)	101.0×82.0	mm	
Effective V/Area	92.76×74.2	mm	
Number of Characters	160×128	-	
Dot Pitch(W×H)	0.59×0.59	mm	
Dot Size(W×H)	0.54×0.54	mm	
Weight (Reflective/Led)	-	g	

3.ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	CONDITION	STANDARD	
			MIN	MAX
Logic Voltage	V_{DD}	Ta=25℃	-0.3V	7V
LCD Voltage	V_{LCD}		-0.3V	25V
Input Voltage	V_I		-0.3V	V_{DD}+0.3V
Operation Temperature	T_{OP}	—	-20℃	70℃
Storage Temperature	T_{ST}	—	-30℃	80℃

4.BLOCK DIAGRAM MECHANICAL



5.LED BACKLIGHT SPECIFICATIONS

ITEM	SYMBOL	TYPE	MAX	UNIT
Ta=25℃				
Forward Voltage	V_f	4.1	4.2	V
Forward Current	I_f	770	—	mA
Emission Vave Length	λ_P	568	—	nm

6.INTERFACE PIN CONNECTIONS

ITEM	SYMBOL	LEVEL	FUNCTIONS
1	FG	—	Frame Ground
2	VSS	0V	Power Ground
3	VDD	+5V	Power supply for logic
4	V0	—	Contrast adjust
5	VEE	—	Supply voltage for LCD driving
6	/WR	L	Write signal
7	/RD	L	Read signal
8	/CE	L	Chip enable signal
9	C/D	H/L	H:command L:data
10	/HALT	H/L	H: Normal L:Stop Osc Clk
11	/REST	L	Reset signal
12-19	DB0-DB7	H/L	Data Bus
20	NC	—	No connection
21	BLA	4.2V	Power Supply For LED Backlight
22	BLK	0V	

7.ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	MIN	TYPE	MAX	UNIT
Ta=25℃					
Logic Power	V_{DD}	4.5	5	5.5	V
Input High Voltage	V_{IH}	V_{DD}-2.2	—	V_{DD}	V
Input Low Voltage	V_{IL}	0	—	0.8	V
Output High Voltage	V_{OH}	V_{DD}-0.3	—	V_{DD}	V
Output Low Voltage	V_{OL}	0	—	0.3	V
Logic Current	I_{DD}	—	—	20	mA
Operation Voltage For LCD	V_{DD}-V_0	—	15.5	—	V