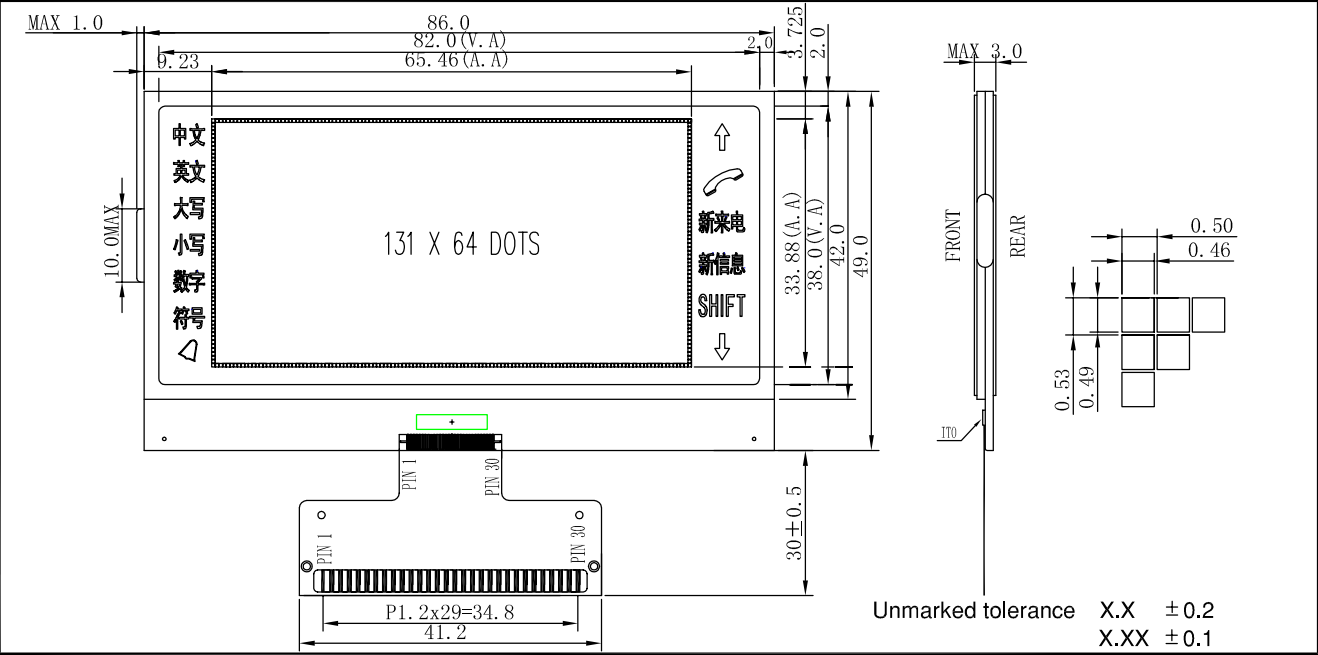


AV-DISPLAY

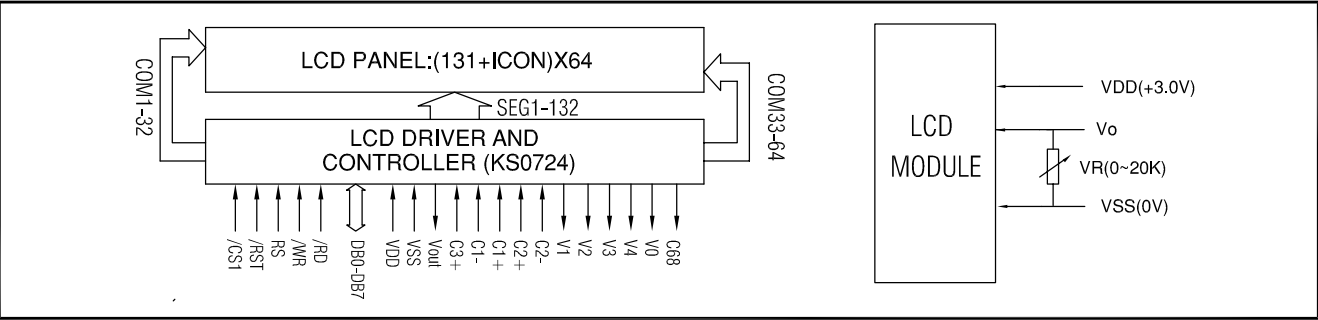
HY-13164A Series

131x64 DOTS
1/65 DUTY,1/9 BIAS

OUTLINE DIMENSIONS



BLOCK DIAGRAM & POWER SUPPLY



MECHANICAL SPECIFICATIONS & FEATURE

Item	Normal Dimensions(mm)	FEATURE	
Module Size (W*H*T)	87.0x49.0x3.0	LCD Type	STN、FSTN
View Area (W*H)	82.0x38.0	LCD Colour	STN:Yellow-Green、Gray FSTN:Gray
DotsxDots(W*H)	131X64	View Angle	6 O'clock、12 O'clock
Dot Pitch (W*H)	0.5X0.53	Display Type	Positive Type
Dot Size (W*H)	0.46X0.49	Rear polarizer	Transmissive、Reflective、Transflective
---	---	Operating Temperature	0°C ~ 50°C 、-20°C ~ 70°C
---	---	Backlight	EL:Green、Blue-Green、Blue Without

ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25° C	---	3.0	---	V
Operating Voltage for LCD	Vlcd	Ta=25° C	---	7.8	---	V
Supply Current	Idd	Ta=25° C, Vdd=3.0V	---	2.0	---	mA
Supply Current for Backlight	If	---	---	---	---	mA

INTERFACE PIN CONNECTIONS

Pin No	Symbol	Level	Description	Pin No	Symbol	Level	Description
1	NC	--	No Connection	13	Vout	--	Voltage converter input/output pin
2	C68	--	MPU interface selection (H:68-series MPU L:80-series MPU)	14	VSS	--	Ground for Logic
3	V0	--	LCD driver supply voltages Voltages should have the following relationship: V0≥V1≥V2≥V3≥V4≥VSS	15	VDD	--	Power supply for Logic(+3.0V)
4	V4	--		16-23	DB0-DB7	H/L	Data bus lines
5	V3	--		24	/RD	L	Read signal
6	V2	--		25	/WR	L	Write signal
7	V1	--	Capacitor 2 negative connection pin	26	RS	H/L	Register selection
8	C2-	--		27	/RST	L	Reset signal
9	C2+	--	Capacitor 2 positive connection pin	28	/CS1	L	Chip selection
10	C1+	--	Capacitor 1 positive connection pin	29	NC	--	No Connection
11	C1-	--	Capacitor 1 negative connection pin	30	NC	--	No Connection
12	C3+	--	Capacitor 3 positive connection pin	--	--	--	--