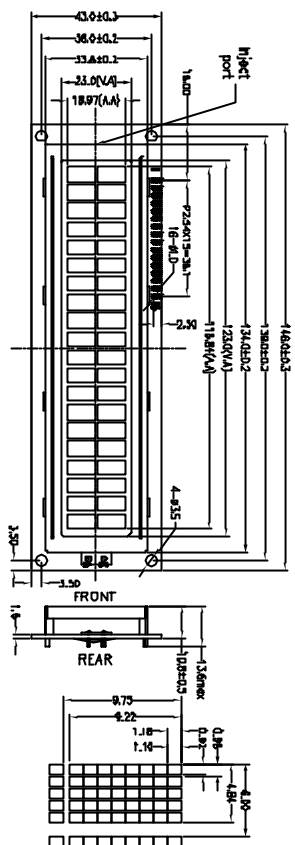
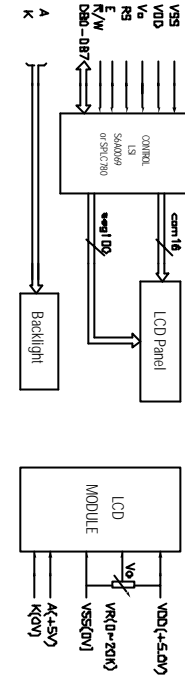


OUTLINE DIMENSIONS



BLOCK DIAGRAM & POWER SUPPLY



MECHANICAL SPECIFICATIONS & FEATURE

Item	Normal Dimensions(mm)	FEATURE
Module Size (W*H*T)	146.0x13.0x13.6	LCD Type STN, FSN
View Area (VW*VH)	121.0x73.0	LCD Colour STN: Yellow-Green, Gray FSN: Gray
Character Pitch (CP*CH)	6.0x7.5	View Angle 6° Oblique, 12° Obck
Character Size (CS*CH)	4.5x6.22	Display Type Positive type, Negative type
Character Form	5x8	Rear pointer Transmissive, Reflective, Freskine
Dot Pitch (VP*VH)	0.98x1.16	Operating Temperature 0°C~50°C, -20°C~70°C
Dot Size (VS*VH)	0.92x1.10	Backlight LED: yellow, green, White, Blue

ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Operating Voltage	V _{DD}	T _a = 25°C	---	5.0	---	V
Operating Voltage for LCD	V _{GL}	T _a = 25°C	---	4.5	---	V
Supply Current	I _{DD}	T _a = 25°C, V _{GL} = 5.0V	---	2.0	3.0	mA
Supply Current for Backlight(LED)	I _B	T _a = 25°C, V _B = 4.2V(Yellow-green)	---	2.0	---	mA

INTERFACE PIN CONNECTIONS

Pin No	Symbol	Level	Description
1	VSS	--	Ground for Logic
2	VDD	--	Power supply for Logic
3	V ₀	--	Power supply for LCD driver
4	RS	H/L	Register selection. (H: Data register, L: Instruction register)
5	R/W	H/L	Read/write selection. (H: Read, L: Write)
6-13	E	H/L	Enable signal for LCD
14	DBU, DBZ	H/L	Data Bus lines
15	LED+	--	Power supply for Backlight(+)
16	LED-	--	Power supply for Backlight(-)

REMARK

Pin 15 and 16 electrode, Kyanbeektrage
 Negative type LCD colour: BLUE
 CGROM font option: English, Japanese, Russian, etc