



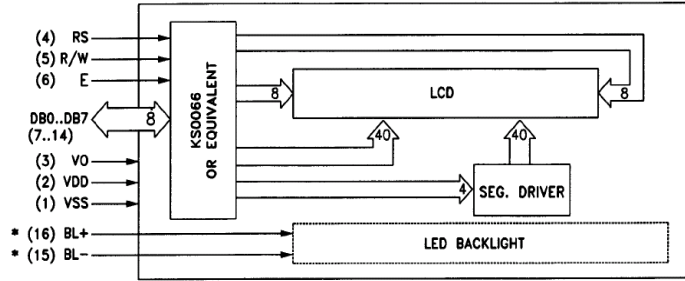
**MI1602U**

**FEATURE:**

<b>Display Format:</b>	16 Characters×2 Lines
<b>Driving Method:</b>	1/16 Duty,1/5 Bias
<b>Display Type:</b>	TN,STN
<b>Viewing Direction:</b>	6 O'clock default,12O'clock optional
<b>Controller IC:</b>	KS0066 or Equivalent
<b>OPERATING TEMP.:</b>	-20℃ ---- 70℃
<b>STORAGE TEMP.:</b>	-30℃ ---- 80℃
<b>Interface:</b>	4-bit or 8-bit parallel
<b>Backlight Type:</b>	No BL ,LED BL , EL optional

**BLOCK DIAGRAM:**

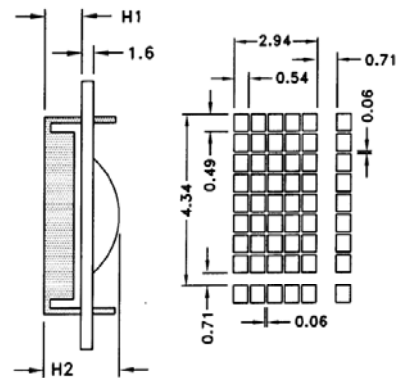
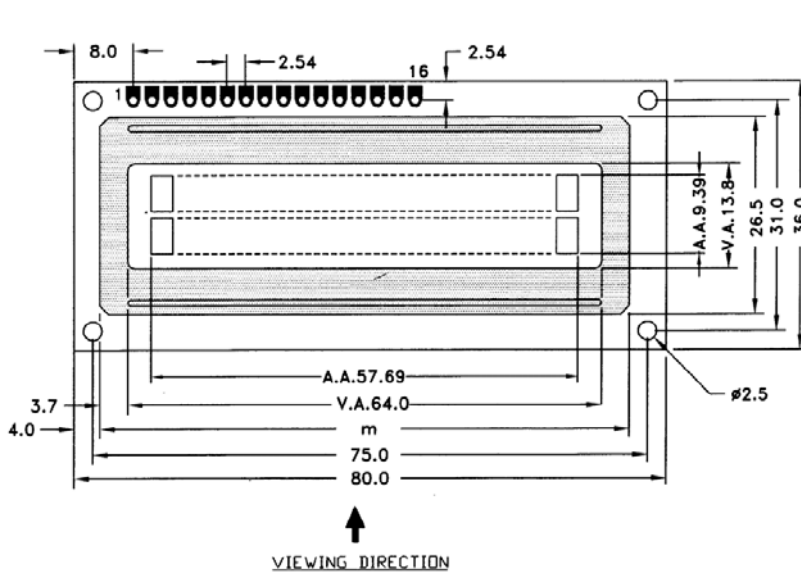
**ELECTRICAL CHARACTERISTICS :**



Item	Symbol	Test Condition	Standard Value			Unit
			Min	Typ	Max	
LCD Operating Voltage	V <sub>DD</sub>		4.75	5.00	5.25	V
LCD Supply Current	I <sub>DD</sub>		--	1.00	1.90	mA
Edge LED (White)	V <sub>F</sub>		4.80	5.00	5.20	V
	I <sub>F</sub>		--	35	40	mA
Edge LED (Blue)	V <sub>F</sub>		3.20	3.40	3.60	V
	I <sub>F</sub>		--	40	45	mA
Edge LED (Y/G)	V <sub>F</sub>		--	4.00	4.20	V
	I <sub>F</sub>		--	40	80	mA
EL	VEL		--	100	150	V <sub>rms</sub>
Array LED(Y/G)	V <sub>BL</sub>		3.85	4.05	4.25	V
	I <sub>BL</sub>		--	150	200	mA

**EXTERNAL DIMENSIONS :**

Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Symbol	V <sub>SS</sub>	V <sub>DD</sub>	V <sub>0</sub>	RS	R/W	E	DB0	DB1	DB2	DB3	DB4	DB5	DB6	DB7	BL-	BL+



Model	m	H1	H2
No Backlight(N)	72.0	5.0	9.1
LED Backlight(M)	72.0	8.0	12.0
LED Backlight(L)	77.0	7.4	11.0