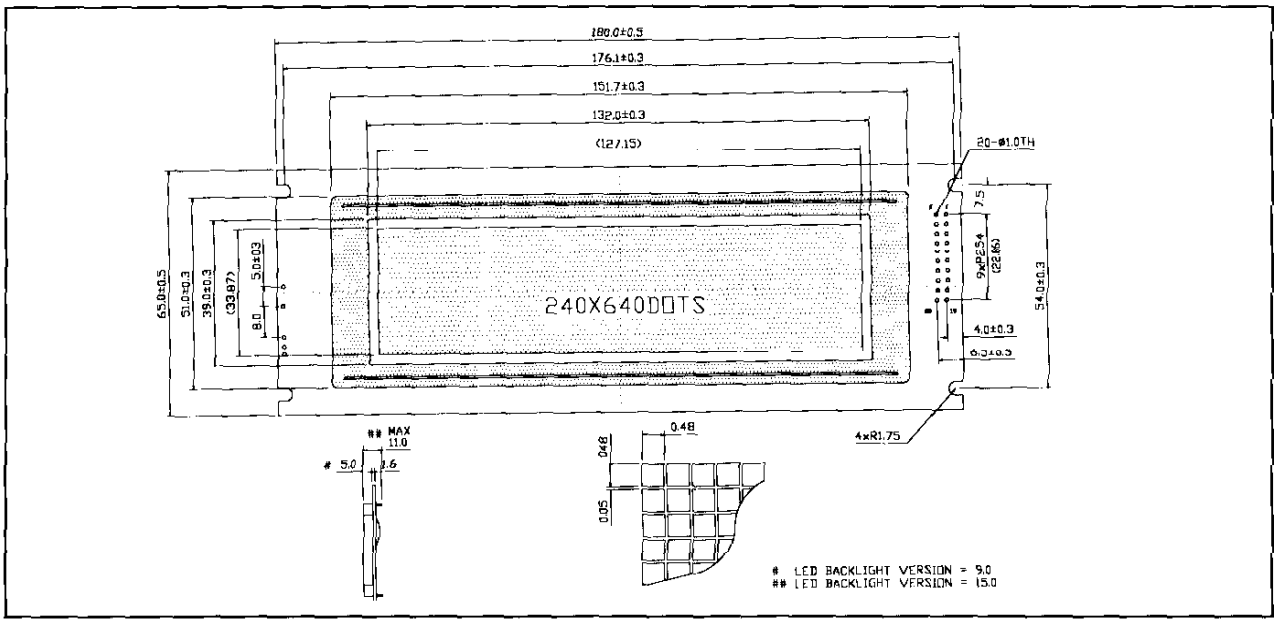
AG2406401

* EXTERNAL DIMENSIONS AND DISPLAY PATTERNS



MECHANICAL DATA (Nominal dimensions)

Module size	180W x 65H x 11T (max.)mm
Effective display area	132.0W x 39.0H mm
Dot size	0.48W x 0.48H mm
Dot pitch	0.53W x 0.53H mm
Weight	about 155g (Approx.)

ABSOLUTE MAXIMUM RATINGS

	MIN.	MAX.
Power supply for logic (V_{DD})	-0.3	7.0 V
Power supply for LCD drive (V_{DD} - V_O)	V_{DD} - 0.3	V_{DD} + 0.3 V
Input voltage (Vi)	-0.3	V_{DD} + 0.3 V
Operating temperature (Ta)	0	+50°C
Storage temperature (Tstg)	-20	+70°C

ELECTRICAL CHARACTERISTICS

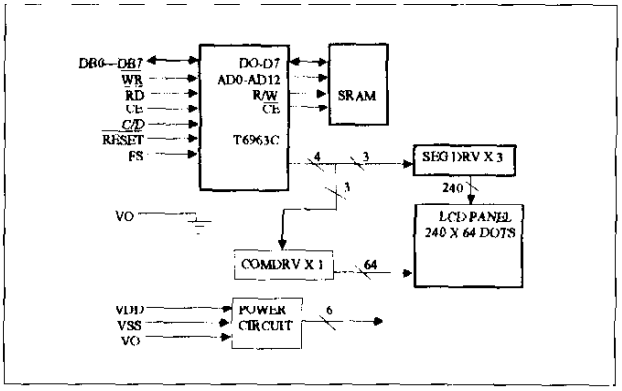
Ta =25°C, V_{DD} = 5.0V±0.25V

Input "high" voltage (Vih)	0.7V_{DD} V min.
Input "low" voltage (Vil)	0.3V_{DD} V max.
Output "high" voltage (VoH) (-IoH = 0.2mA)	2.4V min.
Output "low" voltage (VoL) (IoL = 1.6mA)	0.4V max.
Power supply for LCD drive (V_{DD} - 5.0V)	11.0mA typ.

Drive method
Power supply LCD drive (V_{DD} - V_O)

Ta=0°C	15.7V typ.
Ta=25°C	14.7V typ.
Ta=50°C	13.7V typ.

* BLOCK DIAGRAM



* PIN Assignment

Pin No.	Symbol	Level	Description
1	FG	0V	Frame Ground
2	Vss (GND)	0V	Ground
3	V_{dd}	5.0V	Power Supply Voltage for Logic & LCD (+)
4	V_o	-	Operating Voltage for LCD (Variable)
5	/WR	L	Write Signal
6	/RD	L	Read Signal
7	/CE	L	Chip Enable Signal
8	C/D	H/L	*H : Instructure Code, L : Data*
9	NC	-	No Connection
10	/RESET	L	Reset Signal
11	DB0	H/L	*Data bus bit 0*
12	DB1	H/L	Data bus bit 1
13	DB2	H/L	Data bus bit 2
14	DB3	H/L	Data bus bit 3
15	DB4	H/L	Data bus bit 4
16	DB5	H/L	Data bus bit 5
17	DB6	H/L	Data bus bit 6
18	DB7	H/L	Data bus bit 7
19	FS	H/L	Font Select Signal (H: 6 x 8 Dots, L: 8 x 8 Dots)
20	NC	-	No Connect
21	+		*Backlight*
22	-		Backlight

* BACKLIGHT CHARACTERISTICS (Ta = 25°C)

LED	Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
	Forward Voltage	V_f	I_f = 540mA		4.2	4.6	V
	Reverse Current	I_R	V_R = 10V			0.65	mA
	Luminous Intensity	I_V	I_f = 540mA	45	150		MCD
	Peak Emission Wave Length		I_f = 540mA		565		nm
	Spectral Line Half Width		I_f = 540mA		30		nm

EL	Item	Symbol	Standard Typ	Standard Max	Unit
	Voltage	Vel	100		Vrms
	Frequency	Fel	400		Hz
	Current	Iel	12.3	15.7	mA