



15301 West 109th St, Lenexa, KS 66219

INCORPORATED 913-982-5672 913-982-5766 Fax

DCI240128A 240 dots x 128 dots

1/128DUTY, 1/12BIAS

PINOUT (Drivers/Controllers T6963C, T6A39, T6A40)

PIN	SYMBOL	SIGNAL DESCRIPTION
1	FG	Frame GND
2	Vss	GND
3	Vdd	Power Supply
4	Vee	Power Supply for LCD
5	WR	Write when "L"
6	RD	Read when "L"
7	CE	Enable when "L"
8	C/D	Register Select(L=Data,H=Instruction)
9	RSTB	Reset Signal When "L"
10 to 17	DB0 to DB7	Data Bus for 8 bit Mode
18	FS	Select character style 6x8 or 8x8

ABSOLUTE MAXIMUM RATINGS

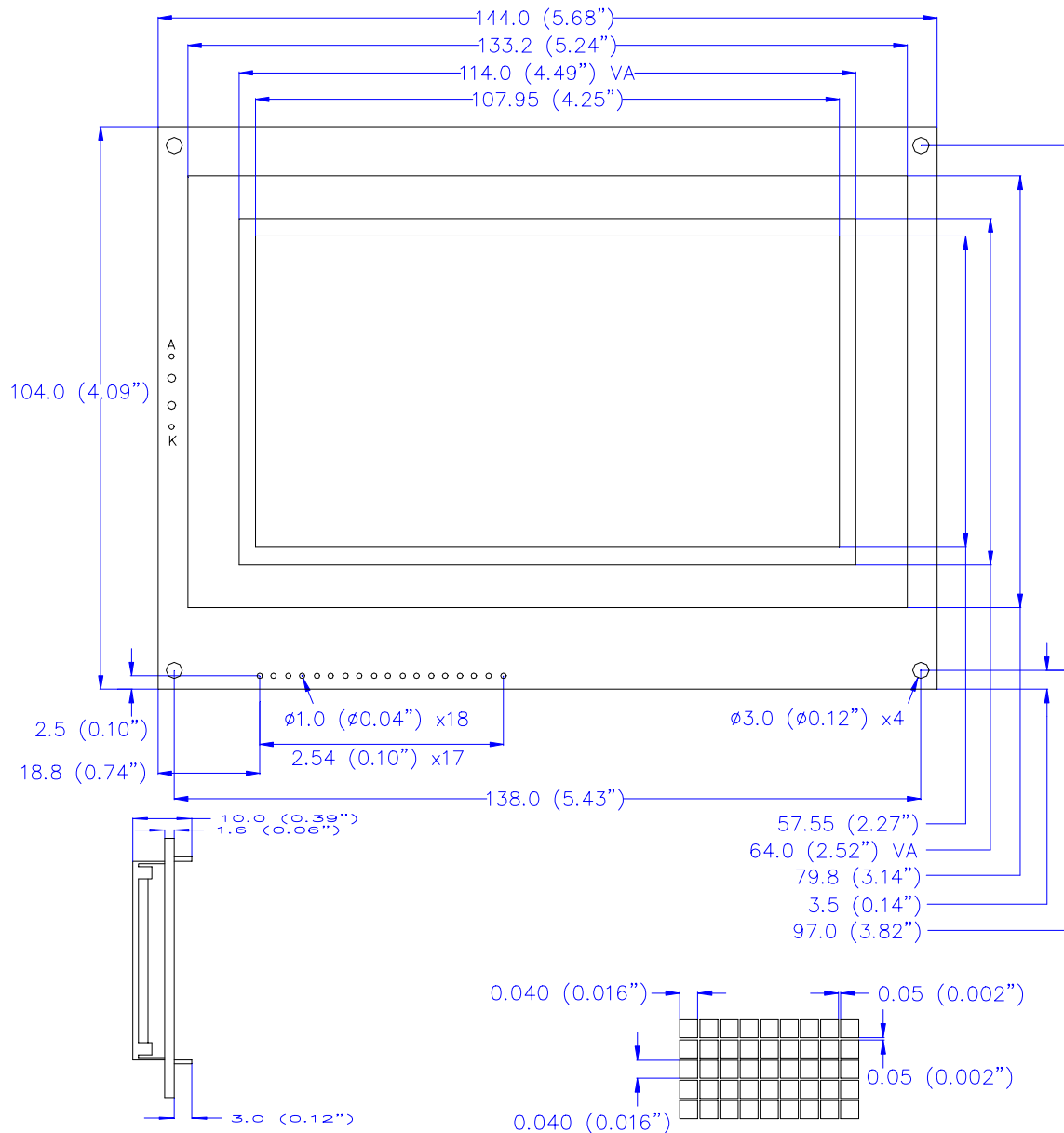
PARAMETER	MIN.	TYP.	MAX.	UNIT
Supply Voltage	0	N/A	7.0	V
LCD Supply Voltage	-	N/A	25.0	V
Input Voltage	-0.3	N/A	Vdd	V
Operating Temperature	0	N/A	50	°C
Storage Temperature	-20	N/A	70	°C

ELECTRICAL CHARACTERISTICS (@ 25°C)

ITEM	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage (logic)	-	4.5	5.0	5.5	V
Supply Current (logic)	Vdd=5.0	-	9.5	-	mA
Driving Current(LCD)	Vee=-14.0	-	4.6	-	mA
Driving Voltage(LCD)	25°C	-	19	-	V
Input Voltage—H	H	Vdd-2.2	-	Vdd	V
Input Voltage—L	L	Vss	-	0.8	V
Output Voltage—H	H	Vdd-0.3	-	Vdd	V
Output Voltage—L	L	0	-	0.3	V

BACKLIGHT CHARACTERISTICS (@ 25°C)

PARAMETER	CONDITION	MIN	TYP.	MAX.	UNIT
Supply Voltage	-	-	4.1	-	V
LED Forward Consumption Current	@ 25°C Vf=4.1V	-	110	-	mA
LED Allowable Dissipation	-	-	460	-	mW



MECHANICAL DATA 240X128A (.59")

* Module thickness with backlight 15.0 mm

ITEM	SPECIFICATION	MM(IN)
Module Size (WxHxT)	144.0x104.0x10.0 (5.68"x4.09"x0.39")	mm(in)
Viewing Area (WxH)	114.0x64.0 (4.49"x2.52")	mm(in)
Number of Dots (WxH)	240x128	dots
Dot Pitch (WxH)	0.45x0.45 (0.017"x0.017")	mm(in)
Dot Size (WxH)	0.4x0.4 (0.016"x0.016")	mm(in)