



15301 West 109th St, Lenexa, KS 66219

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

DCI204A 20 character x 4 lines

1/16DUTY, 1/5BIAS

PINOUT (Drivers/Controllers KS0065B, KS0070B, KS0063)

PIN	SYMBOL	SIGNAL DESCRIPTION
1	GND	Power Supply: 0V
2	Vdd	Power Supply: +5V
3	V5	Power Supply for LCD
4	RS	Register Select(H=DATA L=Instruction)
5	R/W	Read/Write L=MPU to LCM.H=LCM to MPU
6	E	Enable
7 to 14	DB0 to DB7	Data Bus for 4bit or 8bit Mode
15	A	Anode of LED Unit
16	K	Cathode of LED Unit

ABSOLUTE MAXIMUM RATINGS

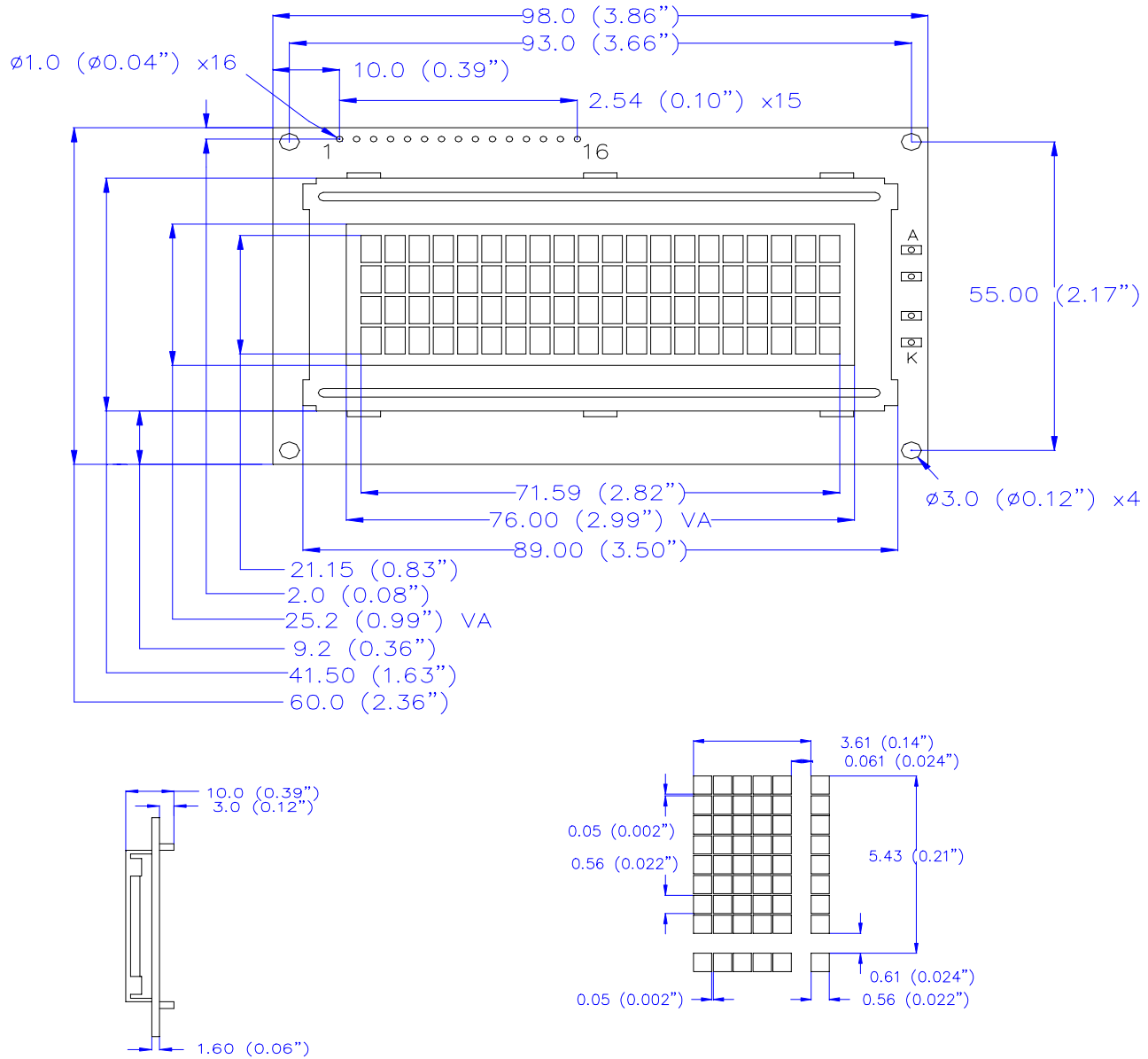
PARAMETER	MIN.	TYP.	MAX.	UNIT
Supply Voltage	-0.3	N/A	7.0	V
LCD Supply Voltage	Vdd-13.5	N/A	0	V
Input Voltage	-0.3	N/A	Vdd+0.3	V
Operating Temperature	0	N/A	50	°C
Storage Temperature	-20	N/A	70	°C

ELECTRICAL CHARACTERISTICS (@ 25°C)

ITEM	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage (logic)	-	4.5	5.0	5.5	V
Supply Current (logic)	Vdd=5.0V	-	1.50	3.0	mA
Driving Current (LCD)		-	0.40	1.0	mA
Driving Voltage (LCD)		3.8	4.5	4.9	V
Input Voltage "H"		2.2	-	Vdd	V
Input Voltage "L"		-0.3	-	0.6	V
Output Voltage "H"	Ioh=0.205mA	2.4	-	-	V
Output Voltage "L"	Iol=1.2mA	-	-	0.4	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	-	200	-	mA
LED Allowable Dissipation	-	-	850	-	mW



MECHANICAL DATA 20X4A (.59")

* Module thickness with backlight 15.0 mm

ITEM	SPECIFICATION	MM(IN)
Module Size (WxHxT)	98.0x60.0x10.0 (3.86"x2.36"x0.39")	mm(in)
Viewing Area (WxH)	76.0x25.2 (2.99"x0.99")	mm(in)
Character Font (WxH)	5x7+cursor	dots
Character Size (WxH)	3.01x4.83 (.12"x.19")	mm(in)
Character Pitch (WxH)	3.61x5.43 (0.14"x0.21")	mm(in)
Dot Size (WxH)	0.56x0.56 (0.022"x0.022")	mm(in)