



15301 West 109<sup>th</sup> St, Lenexa, KS 66219

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

**DCI404A** 40 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	NC	No Connection
7 to 14	DB0 to DB7	Data Bus for 4 bit or 8 bit Mode
15	E1	Enable controller 1
16	E2	Enable controller 2
17	A	Anode of LED Unit
18	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	-	340	-	mA
LED Allowable Dissipation	-	-	1410	-	mW

