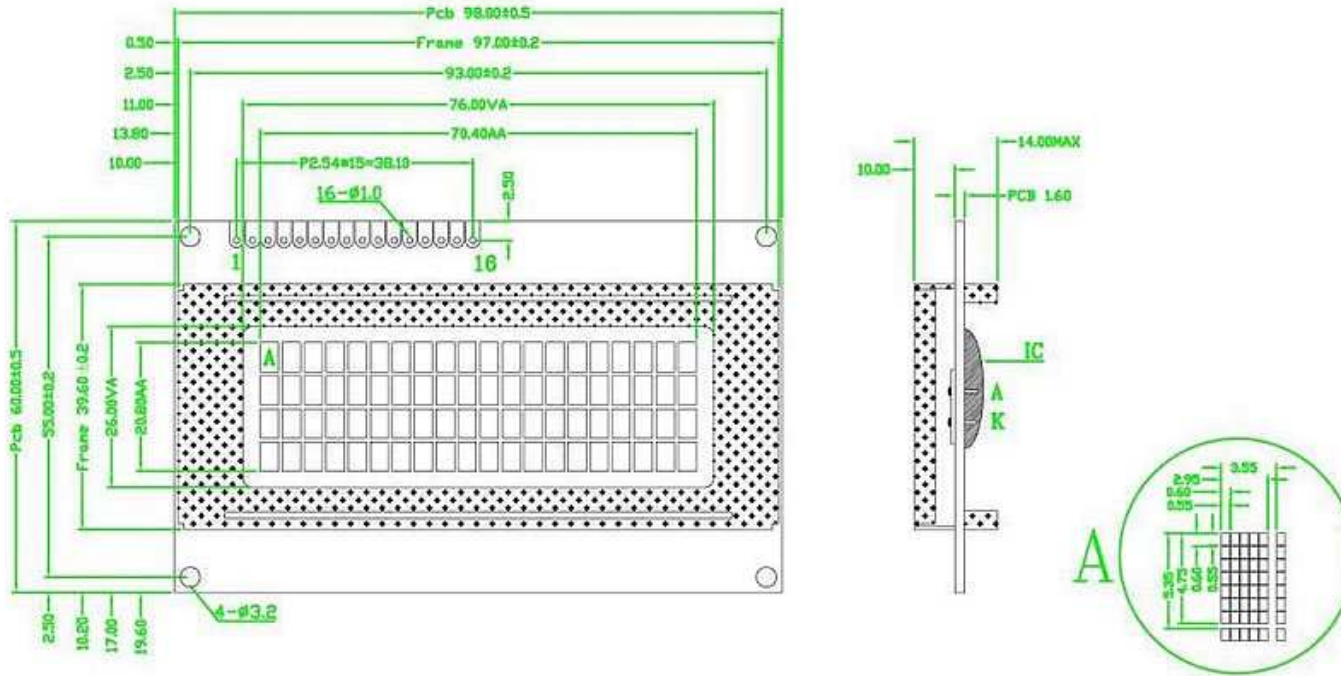


CUSTOMER'S APPROVED:

DATE:



Pin Assignment

NO.	SYMBOL	DESCRIPTION
1	VSS	GROUND
2	VDD	POWER SUPPLY FOR LOGIC(+5V)
3	VO	OPERATING VOLTAGE FOR LCD
4	RS	DATA/INSTRUCTION SELECT
5	RW	READ/WRITE CONTROL
6	E	ENABLE SIGNAL
7-14	DB0-DB7	DATA BUS
15	LED +	BACKLIGHT POSITIVE
16	LED -	BACKLIGHT NEGATIVE

Mechanical Data

ITEM	STANDARD VALUE	UNIT
OUTLINE DIMENSION	98.00(L) x 60.00(W) x 14.00(H)	mm
VIEWING AREA	76.00(L) x 28.00(W)	mm
ACTIVE AREA	70.40(L) x 20.80(W)	mm
DOTS SIZE	0.55(L) x 0.55(W)	mm
DOTS PITCH	0.80(L) x 0.60(W)	mm
CHARACTER SIZE	2.95(L) x 4.75(W)	mm
CHARACTER PITCH	3.55(L) x 3.35(W)	mm

Feature

ITEM	STANDARD VALUE
DISPLAY TYPE	20CHARACTER x 4ROW
LCD TYPE	STN(Y-G), TRANSFLECTIVE/POSITIVE.
DRIVE METHOD	1/16DUTY, 1/5BIAS,VOP4.7V, VDD5.0V.
VIEWING ANGLE	6 O'CLOCK
BACKLIGHT	Y-G(BOTTOM),VDD5.0V, Idd80mA.
DRIVE IC	KS0066U
OPERATING TEMP	-20 TO 70°C
STORAGE TEMP	-30 TO 80°C
CONNECTION	ZEBRA

Absolute Maximum Rating

ITEM	SYMBOL	MIN	MAX	UNIT
POWER SUPPLY(LOGIC)	VDD-VSS	0	7.0	V
POWER SUPPLY(LCD DRV.)	VDD-VO	-0.3	13.5	V
INPUT VOLTAGE	Vin	-0.3	VDD	V

Electrical Characteristics

ITEM	SYMBOL	MIN	TYP	MAX	UNIT	
VOLTAGE FOR LOGIC	VDD-VSS	4.75	5.0	5.25	V	
SUPPLY CURRENT	IDD	-	1.1	2.2	mA	
LCD DRIVER VOLTAGE	VDD-VO	0°C	4.8	5.0	5.2	V
		25°C	4.6	4.7	4.8	V
		40°C	4.4	4.5	4.6	V
INPUT VOLTAGE	Vih	2.2	-	VDD	V	
	Vil	-0.3	-	0.6	V	
OUTPUT VOLTAGE	Voh	2.4	-	-	V	
	Vol	-	-	0.4	V	

Adressierung Lines

LINE 1	0x00 - 0x13
LINE 2	0x40 - 0x53
LINE 3	0x14 - 0x27
LINE 4	0x54 - 0x67

Wichtig

Vorwiderstand an Backlight -> Idd 80mA = 4 Ohm -1/2W

Kontrast

