



Feature

ITEM	STANDARD VALUE
DISPLAY TYPE	192 x 64 DOTS
LCD TYPE	STN(BLUE)/TRANSMISSIVE/NEGATIVE.
DRIVE METHOD	1/64DUTY, 1/9BIAS,VOP5.0V, VDD5.0V.
VIEWING ANGLE	6 0'CLOCK
BACKLIGHT	WHITE(SIDE)/VDD5.0V, IDD110mA.
CONTROL IC	ST7920
OPERATING TEMP	-20 TO 70°C
STORAGE TEMP	-30 TO 80°C
CONNECTION	ZEBCRA

Pin Assignment

NO.	SYMBOL	DESCRIPTION
1	VSS	GROUND
2	VDD	POWER SUPPLY FOR LOGIC(+5V)
3	VO	OPERATING VOLTAGE FOR LCD
4	/RST	RESET SIGNAL(LOW)
5	RS(CS)	INSTRUCTION OR DATA SELECT
6	R/W(SID)	READ/WRITE SELECT
7	E1	CHIP SELECT OF IC1(LOW EFFECTIVE)
8	E2	CHIP SELECT OF IC2(LOW EFFECTIVE)
9	PSB	H:PARALLEL MODE L:SERIAL MODE
10-17	DB0-DB7	DATA BUS
18	LEDA	POWER SUPPLY FOR BACKLIGHT+
19	LEDK	POWER SUPPLY FOR BACKLIGHT-

Mechanical Data

ITEM	STANDARD VALUE	UNIT
OUTLINE DIMENSION	130.00(L) x 65.00(W) x 12.50(H)	mm
VIEWING AREA	104.00(L) x 38.00(W)	mm
ACTIVE AREA	97.87(L) x 32.59(W)	mm
DOTS SIZE	0.46(L) x 0.46(W)	mm
DOTS PITCH	0.51(L) x 0.51(W)	mm

Absolute Maximum Rating

ITEM	SYMBOL	MIN	MAX	UNIT
POWER SUPPLY(LOGIC)	VDD-VSS	0	5.5	V
POWER SUPPLY(LCD DRV)	VDD-VO	0	7.0	V
INPUT VOLTAGE	Vih	Vih	Vih	V

Electrical Characteristics

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
VOLTAGE FOR LOGIC	VDD-VSS	4.75	5.0	5.25	V
SUPPLY CURRENT	IDD	-	5.1	9.8	mA
LCD DRIVER VOLTAGE	0°C		5.5		V
	25°C		5.0		V
INPUT VOLTAGE	40°C		4.5		V
		Vih	0.7VDD	-	V
	Vil	0	-	0.3VDD	V