



I/O CONNECTION		
Pin No	Symbol	Function
1	VSS	Power supply (GND)
2	VDD	Power supply (+)
3	V0	Contrast adjust
4	RS	Register select signal
5	R/W	Read/write select signal
6	E	Enable signal
7	DB0	Data bus line
8	DB1	Data bus line
9	DB2	Data bus line
10	DB3	Data bus line
11	DB4	Data bus line
12	DB5	Data bus line
13	DB6	Data bus line
14	DB7	Data bus line
15	CS1	Chip select pin1
16	/RST	Reset single input pin
17	CS2	Chip select pin2
18	CS3	Chip select pin3
19	VOUT	Internal DC-DC output
20	BLA	Power supply for LED (+)

- NOTE:
- 1 TOLERANCES UNLESS OTHERWISE SPECIFIED: ±0.20mm
  - 2 ALL DIMENSIONS ARE IN mm
  - 3 VIEWING ANGLE: 6 O'CLOCK
  - 4 MULTIPLEX LEVEL: 1/64 DUTY, 1/9 BIAS
  - 5 DISPLAY MODE: STN YELLOW-GREEN/GRAY/BLUE & FSTN
  - 6 POLARIZER REFLECTIVE: TRANFLECTIVE/NEGATIVE
  - 7 CONNECTORS: ZEBRA
  - 8 DATA TRANSFER: 8-BIT PARALLEL DATA TRANSFER
  - 9 BACKLIGHT: LED
  - 10 COLOR OF BACKLIGHT: BLUE/WHITE
  - 11 POWER SUPPLY FOR LCD (VDD-VEE): 12.0V MAX

ABSOLUTE MAXIMUM RATING					
ITEM	Symbol	Condition	Min	Max	Units
Power supply for logic	Vdd-Vss	25°C	-0.3	7.0	V
Operating voltage for LCD	Vdd-V0	25°C	Vdd-19.0	Vdd+0.3	V
Input voltage	Vin	25°C	-0.3	Vdd+0.3	V
Operating temperature	Top	--	-20	70	°C
Storage temperature	Tstg	--	-30	80	°C

ELECTRO-OPTICAL CHARACTERISTICS						
ITEM	Symbol	Condition	Min	Typ	Max	Units
Power supply for logic	Vdd-Vss	25°C	4.5	5.0	5.5	V
LCM current consumption (No B/L)	Id	Vdd=5V	--	--	5.0	mA
		-20°C	11.7	12.0	12.3	V
		25°C	11.7	12.0	12.3	V
Operating voltage for LCD	Vdd-V0	25°C	11.7	12.0	12.3	V
		70°C	11.7	12.0	12.3	V
Backlight current consumption	ILed	VB/L=5.0V	--	160.0	--	mA

