



- ### FEATURE
- 128X128 dots graphic LCD module
  - Built-in controller (T6963C)
  - +5V power supply
  - STN LCD panel, 1/128 duty cycle

### MECHANICAL SPECIFICATIONS

PARAMETER	VALUE	UNIT
DOT NUMBER	128W X 128H	—
OVERALL SIZE	92.00W X 106.00H	mm
VIEWING AREA	73.00W X 73.00H	mm
HOLE - HOLE	85.00W X 99.00H	mm
DOT SIZE	0.50W X 0.50H	mm
DOT PITCH	0.05W X 0.05H	mm

### PIN ASSIGNMENT

PIN	SYMBOL	FUNCTION
1	FG	Frame ground
2	Vss	GND
3	Vdd	Power Supply
4	V0	Operating voltage for LCD
5	/WR	Write enable signal
6	/RD	Read enable signal
7	/CE	Chip enable signal
8	C/D	H: Instruction, L: Data
9	/RST	Reset signal
10 to 17	DB0 to DB7	H/L Data bus line
18	FS	Font selection
19(A)	LED+	Power supply for BKL (4.2V)
20(K)	LED-	Power supply for BKL (GND)

### ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN	MAX	UNIT
POWER SUPPLY (LOGIC)	Vdd	-0.3	7.0	V
POWER SUPPLY (LCD)	V0	Vdd-30.0	Vdd+0.3	V
INPUT VOLTAGE	Vin	-0.3	Vdd+0.3	V

### ELECTRONICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	STANDARD			UNIT
			MIN	TYP	MAX	
Input voltage	Vdd	+5V	4.7	5.0	5.5	V
Supply current	Idd	Vdd=5V	---	10	---	mA
Recommended LCD driving voltage for normal temperature version module	Vdd-V0	0 °C	---	19.5	---	V
		25 °C	---	19.0	---	
		50 °C	---	18.0	---	
LED forward voltage	Vf	25 °C	---	4.2	4.5	V
LED forward current	If	25 °C	---	530	---	mA