



### FEATURES

- ◆ BUILT-IN CONTROLLER (SED1520 OR EQUIVALENT)
- ◆ +5 V POWER SUPPLY
- ◆ 1/32 DUTY CYCLE
- ◆ 8-BIT PARALLEL INTERFACE

### MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	117.0 x 39.0 x 12.7	mm
Viewing Area ( W x H )	84.0 x 27.0	mm
Active Area ( W x H )	79.62 x 20.76	mm
Dot Size ( W x H )	0.61 x 0.61	mm
Dot Pitch ( W x H )	0.65 x 0.65	mm

### INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	Vss	0V	Power Supply Ground
2	VDD	5V	Power Supply Voltage
3	Vo	-	Contrast Adjustment Voltage
4	Ao	H/L	Data Type Select Signal
5	R/W	H/L	H : Read / L : Write
6	E1	H,H→L	Chip Select Signal for IC1
7	E2	H,H→L	Chip Select Signal for IC2
8-15	DB0-DB7	H/L	Data Bus Line
16	/RES	L	Reset Signal
17	A	4.2V	LED Power (+)
18	K1	L	Red LED power supply
19	K2	L	Green LED power supply
20	K3	L	Blue LED power supply

### ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V <sub>DD-VSS</sub>	0	-	7	V
Supply Voltage For LCD Drive	V <sub>DD-Vo</sub>	0	-	12	V
Input Voltage	V <sub>i</sub>	V <sub>SS</sub>	-	V <sub>DD</sub>	V

### ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V <sub>DD-VSS</sub>	-	4.5	5	5.5	V
Supply Voltage For LCD	V <sub>DD-Vo</sub>	V <sub>DD</sub> =5V Ta=25°C	4.4	4.8	5.2	V
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> =5V	-	2.5	4.5	mA
Input Voltage	"HIGH" Level	V <sub>IH</sub>	-	2.2	-	V <sub>DD</sub> V
	"LOW" Level	V <sub>IL</sub>	-	-	-	0.6 V
Output Voltage	"HIGH" Level	V <sub>OH</sub>	-	2.4	-	V
	"LOW" Level	V <sub>OL</sub>	-	-	-	0.4 V