



AMG008002B (8 CHARACTERS X 2 LINES)

FEATURES

- ◆ 5 x 7 DOTS WITH CURSOR
- ◆ BUILT-IN CONTROLLER (ST7032i)
- ◆ +3.3 V POWER SUPPLY
- ◆ 1/16 DUTY CYCLE
- ◆ I2C SERIAL INTERFACE

INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	VO	-	Test Pin For VLCD, Leave it open.
2	VOUT	P	Power Supply Voltage For LCD.
3	CAPIN	P	For voltage booster circuit (VDD-VSS)
4	CAP1P	P	External Capacitor about 0.1u-4.7uF
5	VDD	3.3V	Power Supply Voltage .
6	VSS	0 V	Power Supply Ground.
7	SDA	H/L	I2C Bus serial Data Input/Output.
8	SCL	H/L	I2C Bus serial Clock Input.
9	XRSETB	L	Reset Input.

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	30.0 x 19.5 x 5.5	mm
Viewing Area (W x H)	27.0 x 10.5	mm
Active Area (W x H)	23.1 x 9.25	mm
Dot Size (W x H)	0.45 x 0.50	mm
Dot Pitch (W x H)	0.50 x 0.55	mm

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V _{DD-VSS}	-0.3	-	7	V
Supply Voltage For LCD Drive	V _{DD-Vo}	-0.3+ V _{SS}	-	7.0-V _{SS}	V
Input Voltage	V _i	-0.3	-	V _{DD} +0.3	V

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Supply Voltage For Logic	V _{DD-VSS}	-	2.7	3.3	5.5	V	
Supply Voltage For LCD	V _{DD-Vo}	V _{DD} =3.3V Ta=25°C	4.4	4.7	5.0	V	
Supply Current	I _{DD}	V _{DD} =3.3V	-	1.6	2	mA	
Input Voltage	"HIGH" Level	V _{IH}	-	0.7V _{DD}	-	V _{DD}	V
	"LOW" Level	V _{IL}	-	-0.3	-	0.8	V
Output Voltage	"HIGH" Level	V _{OH}	-	0.75V _{DD}	-	-	V
	"LOW" Level	V _{OL}	-	-	-	0.8	V

EXTERNAL DIMENSIONS

