



AMG008002A (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
- ◆ 4-BIT PARALLEL INTERFACE

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	39.7 x 21.1 x 2.2	mm
Viewing Area (W x H)	34.0 x 13.1	mm
Active Area (W x H)	29.37 x 10.65	mm
Dot Size (W x H)	0.60 x 0.60	mm
Dot Pitch (W x H)	0.63 x 0.63	mm

INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	VOUT	P	DC/DC Voltage Converter
2	CAPIN	P	For voltage booster circuit (VDD-VSS)
3	CAP1P	P	External Capacitor about 0.1u-4.7uF
4	VDD	3.3V	Power Supply Voltage
5	NC	-	No Connection
6	VSS	L	Power Supply Ground
7~10	D7~D4	H/L	Data Bus Line
11	E	H	Enable Signal
12	R/W	H	Read/Write
13	CSB	L	Chip Select In Parallel Mode And Serial Interface
14	RS	H/L	Register Select
15	RES	H	Reset Input

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-V_o}	-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-V_o}	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

