



FEATURES

- ◆ BUILT-IN CONTROLLER (NT7532 OR EQUIVALENT)
- ◆ +3.3 V POWER SUPPLY
- ◆ 1/64 DUTY CYCLE
- ◆ 8-BIT PARALLEL INTERFACE

INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1 ~ 5	V ₀ -V ₄	-	LCD driver supply voltage
6, 7	C ₂₊ , C ₂₋	-	Capacitor for internal DC/DC voltage converter
8, 9	C ₁₊ , C ₁₋	-	Capacitor for internal DC/DC voltage converter
10	C ₃₊	-	Capacitor for internal DC/DC voltage converter
11	V _{out}	-	Voltage converter output
12	V _{ss}	0V	Power Supply Ground
13	V _{DD}	3.0V	Power Supply Voltage
14□21	DB7□DB0	H/L	Data Bus line
22	/RD	L	Read Signal
23	/WR	L	Write Signal
24	A ₀	H/L	H : Instruction Code , L : Data Code
25	/RES	L	Reset Signal
26	/CS	L	Chip Select Signal.

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	72.0 x 46.0 x 4.8	mm
Viewing Area (W x H)	66.0 x 32.7	mm
Active Area (W x H)	61.41 x 30.69	mm
Dot Size (W x H)	0.45 x 0.45	mm
Dot Pitch (W x H)	0.48 x 0.48	mm

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V _{DD} -V _{SS}	0	-	3.6	V
Supply Voltage For LCD Drive	V _{DD} -V ₀	0	-	13.0	V
Input Voltage	V _I	V _{SS}	-	V _{DD}	V

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Supply Voltage For Logic	V _{DD} -V _{SS}	-	2.7	3.0	3.5	V	
LCD Supply Voltage	V _{DD} -V ₀	V _{DD} =3.0V Ta=25	8.1	9.6	10.1	V	
Supply Current	I _{DD}	V _{DD} =3.0V	-	1.2	1.5	mA	
Input Voltage	"HIGH" Level	V _{IH}	-	2.2	-	V _{DD}	V
	"LOW" Level	V _{IL}	-	-	-	0.6	V
Output Voltage	"HIGH" Level	V _{OH}	-	2.4	-	V	V
	"LOW" Level	V _{OL}	-	-	-	0.4	V