



TG322420

320 x 240 dots

FSTN

Reflective / CCFL Backlight

DIMENSIONAL DATA

Item	Measurement (W) x (H) x (T)	Unit
Module Dimension	166 x 109 x 9.2 Max. (CCFL B/L)	mm
Viewing Area	121 x 91.6	mm
Dot Pitch	0.36 x 0.36	mm
Dot Size	0.34 x 0.34	mm
Weight	200	g
Controller/Driver	MSM6778/MSM6779	

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Condition	Min.	Max.	Unit
Supply Voltage (Logic)	$V_{DD} - V_{SS}$	-	0.3	6.5	V
Supply Voltage(LCD)	$V_{DD} - V_{EE}$	0		30.0	V
Input Voltage	V_i	$-0.5 \leq T_a = 25 \text{ C}$.3	$V_{DD} + 0.3$	V
Operating Temp.	T_{opr}		0	50	C
Storage Temp.	T_{stg}		-20	70	C

ELECTRICAL CHARACTERISTIC

Item	Symbol	Condition	Value			Unit
			Min.	Typ.	Max.	
Supply Voltage (Logic)	$V_{DD} - V_{SS}$	--	4.5	5	5.5	V
Supply Voltage (LCD)	$V_{DD} - V_O$	- -	19.6	20.3	21.0	V
Supply Current	I_{DD}	$V_{DD} - V_{SS} = 5V$	--	2.7	4	mA
	I_{EE}	$V_{DD} - V_{EE} = 20.3V$	--	3.0	5	mA
Input Voltage "H" Level	V_{IH}	High Level	$0.8 * V_{DD}$	--	V_{DD}	V
Input Voltage "L" Level	V_{IL}	Low Level	V_{SS}	--	$0.2 * V_{DD}$	V
Frame Frequency	F_f	$T_a = 25 \text{ C}$	--	70	--	Hz
Viewing Angle	1 - 2	$T_a = 25 \text{ C}$	--	33	--	Deg.
	1. 2	CR 3	--	32	--	Deg.

OUTLINE DIMENSION

