



7.2 BACKLIGHT

CN2: MSB24038P5 (Produced by STM) or equivalent.

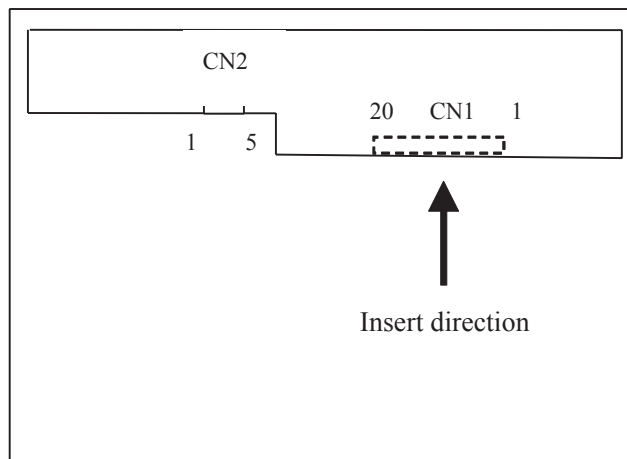
Pin	Symbol	Signal Name
1	VCC	12V
2	GND	GND
3	Enable	5V-On / 0V-Off
4	Dimming	PWM Dimming
5	NC	NC

PWM Dimming:

# TM121SDS01

Parameter		Symbol	min.	typ.	max.	Unit
PWM Input Threshold Voltage	Logic-High	$V_{PWMH}$	1.2	-	-	V
	Logic-Low	$V_{PWML}$	-	-	0.4	V
PWM Input Frequency		$1/T_{PWM}$	100	200	10K	Hz

7.3 POSITION OF PLUGS AND A SOCKET





6.2 DRIVING FOR BACKLIGHT

(Ta=25°C) Note1

Parameter	Symbol	min.	typ.	max.	Unit	Remarks
Light bar operation voltage (for reference)	V <sub>LED</sub>	25	-	33	Vrms	Operating with fixed driving current
Light bar operation current (pin)	I <sub>LED</sub>	-	80	-	mArms	Note1
Light bar operating lifetime	Hr	50000	-	-	Hour	I <sub>LED</sub> =80mA,Note3

Note1: The backlight of this product is made up of 1 light bar, LED to be 3020, 20pieces, 10 serials and 2 parallels.

Note2: The light bar can work normally if the PWM dimming ratio range is from 0% to 100% and the operation current is 80mA.

Note3: The operating lifetime is mean time to half-luminance. In case the product works under room temperature environment.

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