

MC64SEG3-GPTLY3		64 Segment Display	LCD Module
Specification			
Version: 1		Date: 15/07/2012	
Revision			
1	12/07/2012	First Issue	

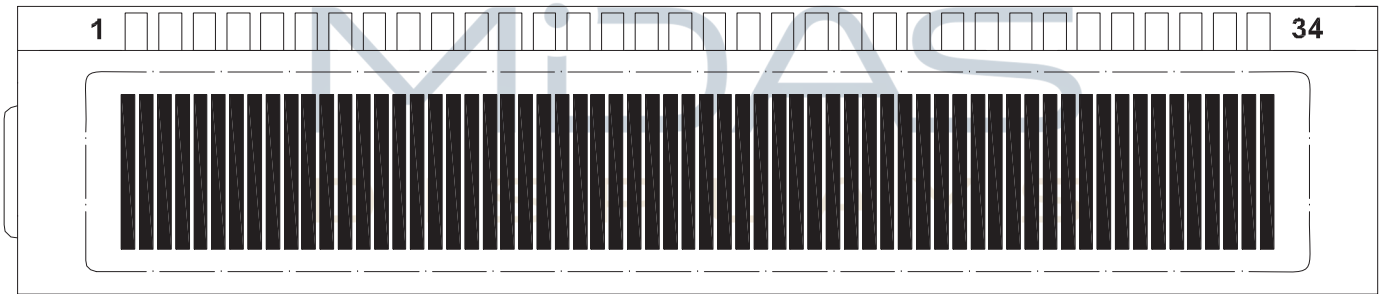
Display Features			
Segment Count	64		
Appearance	Black on Yellow/Green		
Logic Voltage	3V		
Interface	Parallel		
Font Set	---		
Display Mode	Transflective		
Character Height	7mm		
LC Type	Grey STN		
Module Size	60.00 x 13.00 x 2.80 mm		
Operating Temperature	-20°C ~ +70°C		
Construction	COB		
LED Backlight	Yellow/Green	Box Quantity	Weight / Display
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Display Accessories	
Part Number	Description

Optional Variants		
Fonts	Appearances	Voltage



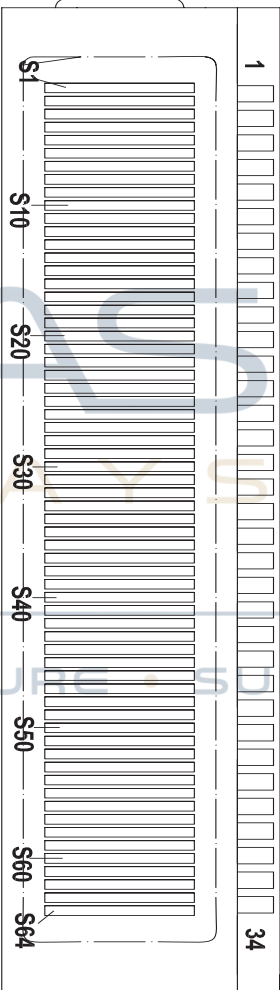
DISPLAY MODE	POSITIVE/TRANSFLECTIVE/STN-GRAY	VIEWING ANGLE	3:00	OPERATING TEMP.	-20℃ ~ 70℃	DUTY	1/2
CONNECTION	PIN	DRIVING VOLTAGE	3.0V	STORAGE TEMP.	-30℃ ~80℃	BIAS	1/2
REMARKS	FREQUENCY: 64Hz						



DESIGN 1:1 SCALE MANUFACTURE • SUPPLY

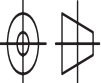
	DRAWN:	CHECKED:	CONFIRMED:	LCD NO:	MC64SEG3-GPTLY3	UNIT: mm	
				DWG NO:	MC64SEG3-GPTLY3		

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PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
COM1	COM1		S1	S3	S5	S7	S9	S11	S13	S15	S17	S19	S21	S23	S25	S27	S29
COM2		COM2	S2	S4	S6	S8	S10	S12	S14	S16	S18	S20	S22	S24	S26	S28	S30

PIN	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
COM1	S31	S33	S35	S37	S39	S41	S43	S45	S47	S49	S51	S53	S55	S57	S59	S61	S63
COM2	S32	S34	S36	S38	S40	S42	S44	S46	S48	S50	S52	S54	S56	S58	S60	S62	S64

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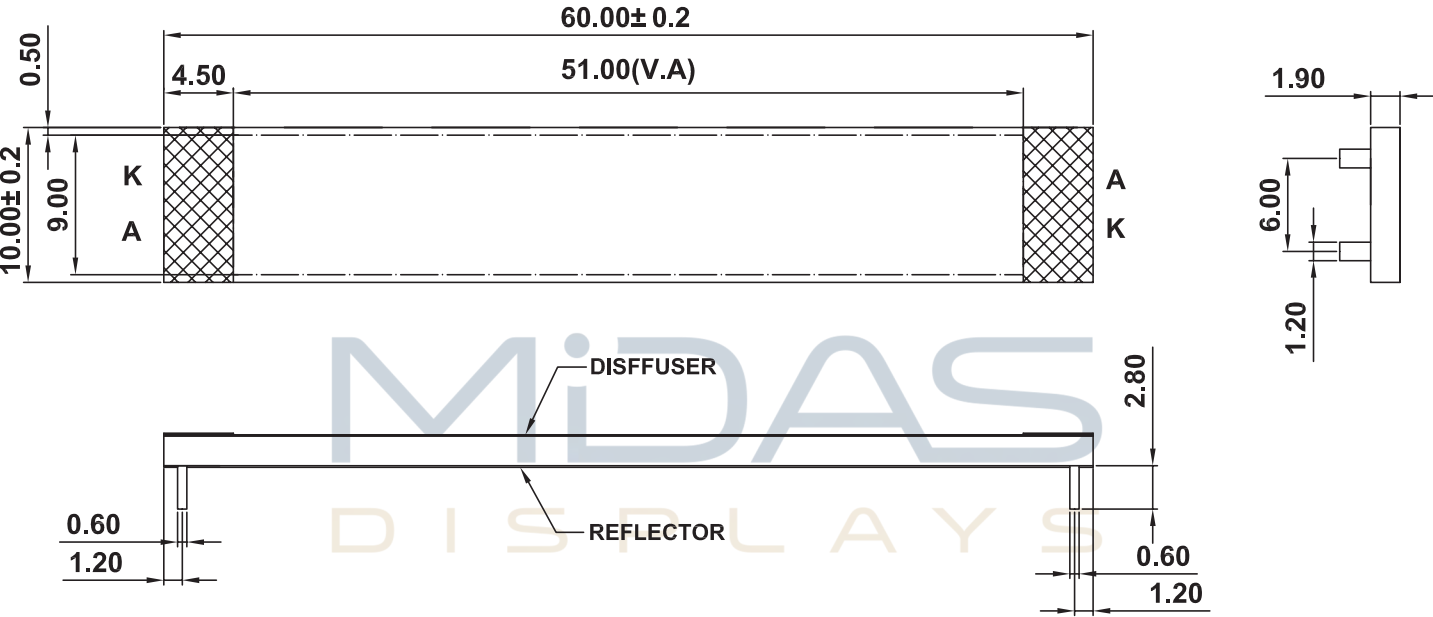
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3. MECHANICAL OUTLINE

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COLOR: YELLOW-GREEN

Unspecified Tolerances is ± 0.3)



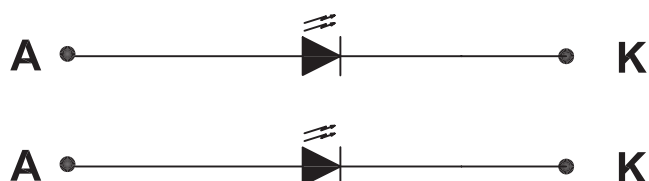
DESIGN • MANUFACTURE • SUPPLY

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REMARKS	FREQUENCY: 64Hz						

4. CIRCUIT DIAGRAM (LED 1 X 2 =2 dies)



5. STORAGE & SOLDERING CONDITIONS:

- Store with care. Storing the units in bad condition will cause the reflector sheet and decrease its adhesive power. Storage The products under the condition: temperature ($25^{\circ}\text{C} \pm 10^{\circ}\text{C}$) and humidity ($65\%\text{RH} \pm 20\%\text{RH}$) our recommendation.
- The Soldering Temperature is $260 \pm 5^{\circ}\text{C}$ and Soldering Time should be less than 3sec, and soldering iron power should be less than 30W.
- The soldering point should be farther than 1.6mm (1/10") from body.

6. ABSOLUTE MAXIMUM RATINGS

(Unless specified, the Ambient temperature $T_a = 25^{\circ}\text{C}$)

Item	Symbol	Conditions	Rating	Unit
Absolute maximum forward current	I_{fm}		20×2	mA
Peak forward current	I_{fp}	1 msec Plus 10% Duty Cycle	—	mA
Reverse Voltage	V_r		0.8	V
Power dissipation	P_d		75×2	mW
Operating Temperature Range	T_{opr}		$-20 \sim +70^{\circ}\text{C}$	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}		$-30 \sim +80^{\circ}\text{C}$	$^{\circ}\text{C}$

* For operation above 25°C , The I_{fm} I_{fp} & P_d must be derated, the Current derating is $-1.08\text{mA}/^{\circ}\text{C}$ for DC drive and $-2.58\text{mA}/^{\circ}\text{C}$ for Pulse drive, the Power dissipation is $-27.0\text{mW}/^{\circ}\text{C}$ The product working current must not be more than 60% of the I_{fm} or I_{fp} according to the working temperature.

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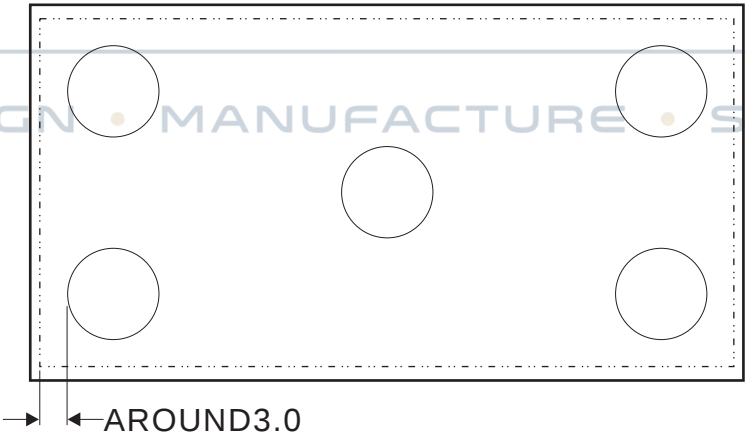


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REMARKS	FREQUENCY: 64Hz						

5.ELECTRICAL-OPTICAL CHARACTERISTICS
(Unless specified,the Ambient temperature Ta=25℃)

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	Vf	2.8	3.0	3.4	V	If= 15*2 mA
Reverse Current	Ir	—	—	10	μA	Vr= 5 V
Peak wave length	λp	569	—	575	nm	If= 15*2 mA
Spectral Line Half Width	△λ	—	—	—	nm	—
Luminance	Lv	160	—	—	cd/m ²	If= 15*2 mA

The luminance is the average value of 5 points,and
The Lvmax./Lvmin. is less than 1.5 Typical (max 1.7).
The measurement instrument is BM-7 luminance
Colorimeter. The caperture is ø10 mm.



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