

# D4848FL-88

## LED DOT MATRIX

MODEL : SSD-D4848FL-88  
CODE : M48F-D4848FL\*M-2

Seoul Semiconductor Co., Ltd.

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# 1. (FEATURES)

COLOR	RED , GREEN, BLUE
DOT SIZE (mm)	5.0
DOT PITCH (mm)	6.0
NUMBER OF DOT	64
DIMENSION (mm)	48.0mm * 48.0mm
WEIGHT (g)	-

# 2. (ELECTRICAL SPECIFICATION)

General Allowance :  $\pm 15\%$

(Ta=25 °C)

Parameter	Symbol	Red	Green	Blue	Unit
Power dissipation * <sup>1</sup>	P <sub>D</sub>	1.84	2.24	2.24	W
Foward current	I <sub>F</sub>	20	20	20	mA
Peak foward current * <sup>2</sup>	I <sub>FP</sub>	120	100	100	mA
Reverse voltage	V <sub>R</sub>	5			V
Operating temperature	Topr	-10 +60			°C
Storage temperature	Tstg	-20 +70			°C

\*<sup>1</sup> Under Full capacity figure (DUTY 1/10, I<sub>FP</sub> = 120mA, I<sub>F</sub> = 100mA )

\*<sup>2</sup> I<sub>FP</sub> conditions: Pulse width Tw 0.1ms, Duty ratio 1/10

# 3. (OPTICAL SPECIFICATION)

General Allowance :  $\pm 15\%$

(Ta=25 °C)

Parameter	Condition	Symbol	RED			GREEN			BLUE			Unit
			MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	
Forward Voltage	I <sub>F</sub> = 20mA	V <sub>F</sub>	-	2.2	2.4	-	3.3	3.5	-	3.3	3.5	V
Reverse Voltage	I <sub>R</sub> = 10uA	V <sub>R</sub>	5	-	-	-	-	10	-	-	10	V
Dominated Wavelength	I <sub>F</sub> = 20mA	$\lambda_d$	-	635	-	520	-	525	465	-	470	nm
Luminous Intensity	I <sub>F</sub> = 20mA	I <sub>v</sub>	70	-	90	120	-	140	50	-	60	mcd
Spectral half-power bandwidth	I <sub>F</sub> = 20mA	$\Delta \lambda$	-	-	20	-	25	-	-	25	-	nm



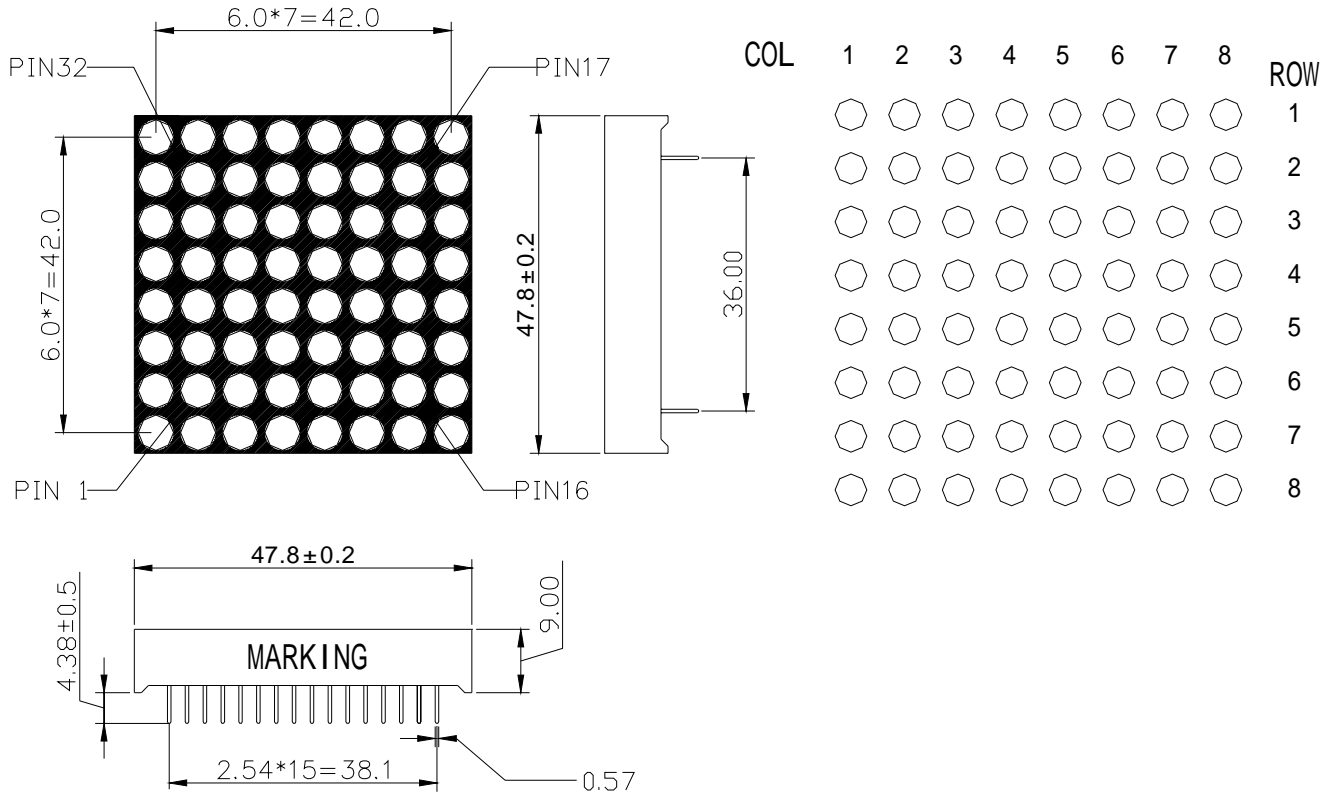
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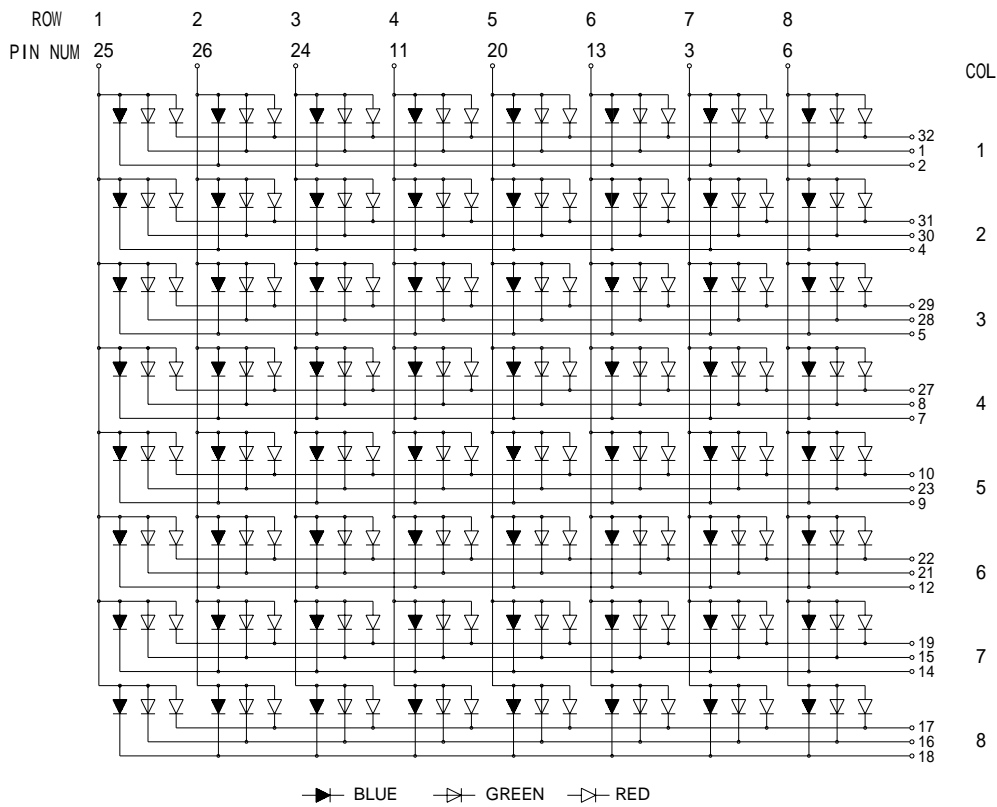
REV	1
SHEETS	1 / 5

# 4. (Demension)



Unit(mm) Normal Tolerance: ± 0.25

# 5. (Circuits)



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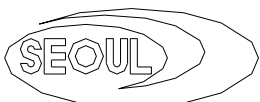
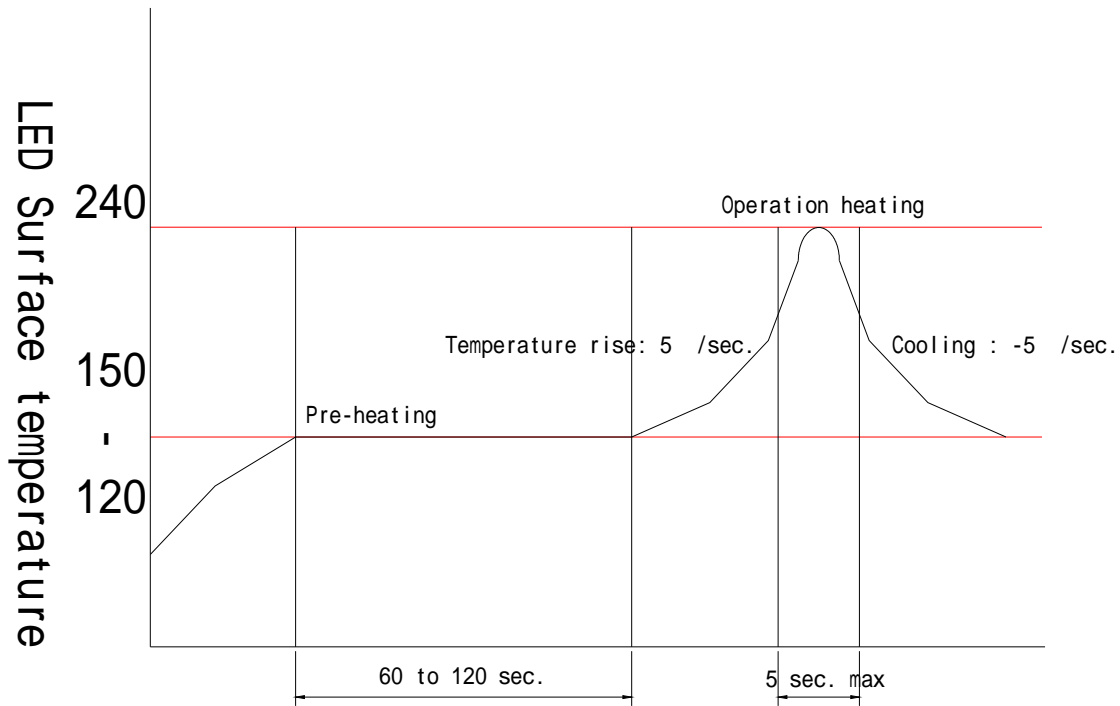
REV	1
SHEETS	2
	5

## 6. (soldering condition profile)

### 1) Reflow Soldering Conditions / Profile

preliminary heating to be at 150 max. for 2minutes max.

soldering heat to be at 240 max. for 5seconds max.



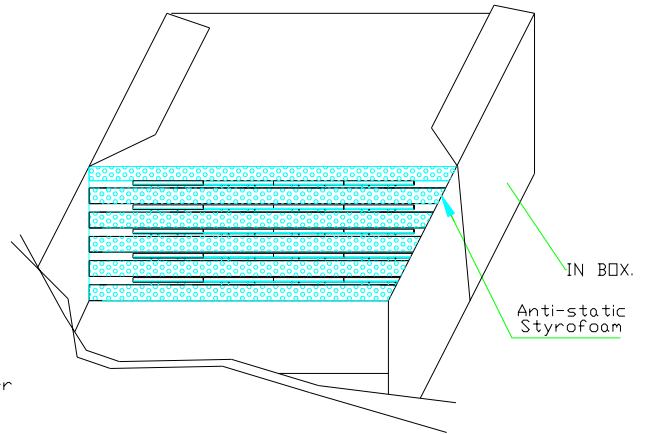
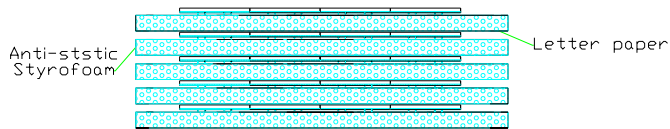
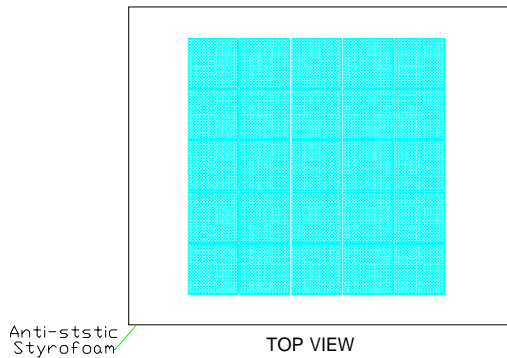
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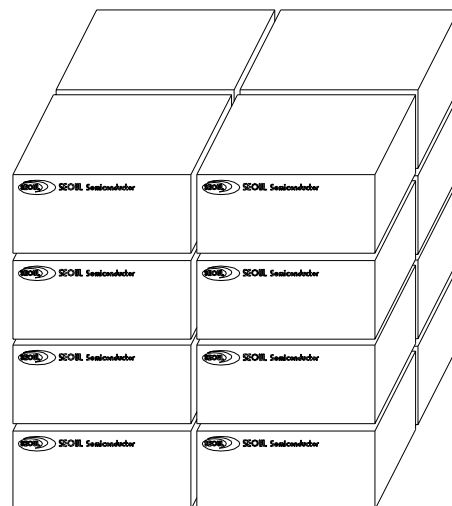
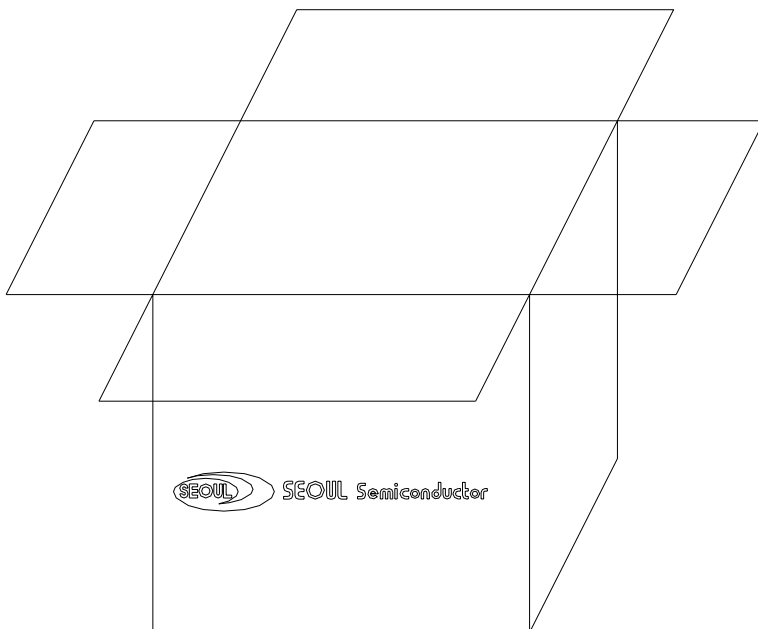
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REV	1
SHEETS	3
	5

# 7. PACKING



\*note  
1.1BOX QUANTITY 48EA



\* NOTE  
1. 1BIG BOX QUANTITY  
48EA \* 16 = 768EA

## 8.

## (SAFETY)

- DOT MATRIX LED  
가
- Backward voltage or overvoltage flows in the DOT MATRIX LED can damage the internal circuits. Please operate the module under the permitted scope of voltage supply.
- DOT MATRIX LED
- High humidity and leak can damage DOT MATRIX LED.
- DISPLAY PANEL 가  
DOT MATRIX LED MODULE  
COOLING FAN
- Install a cooling fan for cooling out the LED module in order to avoid damage or operating failure caused by the heat when many display panels are attached to one board or the module is operated under ill-ventilated conditions.
- DOT MATRIX LED 가 DOT ,  
가
- DOT MATRIX LED could be damaged or broken by a shock or collision.
- DOT MATRIX LED
- Be careful not to scratch or impact the DOT MATRIX LED.
- DOT MATRIX LED ,
- Treat or keep under the condition of static electricity-proof packing.
- Twisted cable Shielded wire module
- It is recommended to use twisted cable or shielded wire to protect the module from high-frequency noise and to secure stable operation.
- 1 PIN ,
- Please pay attention it's pin number before you work.



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VER
1
SHEETS
5/5