

SEOUL Semiconductor

16Dot*32Dot LED DOT MATRIX

MODEL : SSD-D4080SM_BLUE

Seoul Semiconductor Co., Ltd.

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1.특성 (FEATURES)

COLOR	BLUE
DOT SIZE (mm)	2
DOT PITCH (mm)	2.54
NUMBER OF DOT	512
DIMENSION (mm)	40.64mm*80.64mm
FUNCTION	WATCHDOG

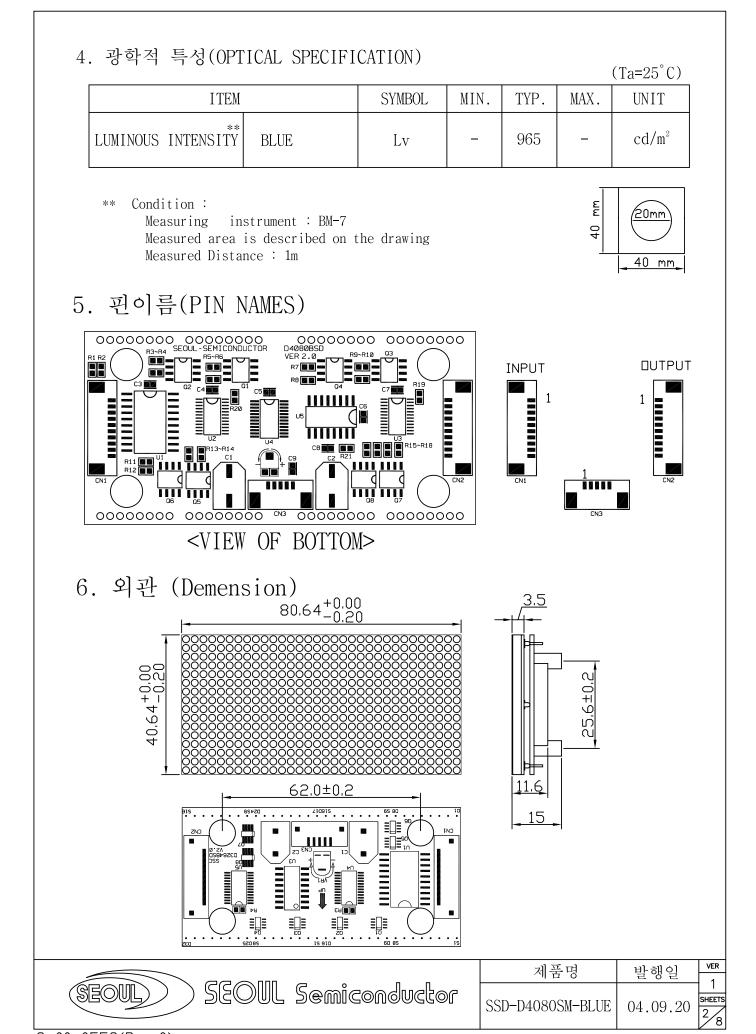
2.전기적 특성(ELECTRICAL SPECIFICATION)

·인기격 특징(ELEC)		SI LOTI TOMITON)	(Ta=25°C)
Parameter	Symbol	RATING	Unit
Power dissipation *1	PD	8.96	W
Foward current	$I_{\rm F}$	30	mA
Peak foward current *2	$I_{\rm FP}$	100	mA
Reverse voltage	VR	MIN 5	V
Operating temperature	Topr	-20 ~ +80	°C
Storage temperature	Tstg	-30 ~ +90	°C

3. 광학적 특성(OPTICAL SPECIFICATION)

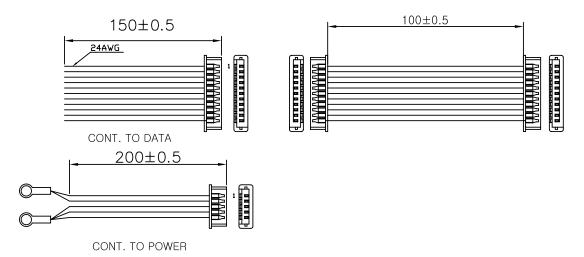
_							(Ta=25°C)	_
	ITEM	CONDITION	SYMBOL	MIN	. TYF	P. MAX.	UNIT	
	FORWARD VOLTAGE	IF = 20mA	$V_{\rm F}$	Ι	3.3	3 3.5	V	
	LUMINANCE	IF = 20mA	Iv	50	-	60	mcd	
	DOMINATED WAVELENGTH	IF = 20mA	λ_{D}	465	5 470) 475		
	SPECTRUM WIDTH OF HALF VALUE	IF = 20mA	$ riangle \lambda$	_	25	_	nm	
	VIEWING ANGLE	HOR I ZONTAL VERTICAL	2		45 45		DEG	
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7. 연결단자(HARNESS)



- * 사전예고없이 변경될 수 있습니다.
- \ast It can be changed without preliminary advance notice.

8. 커넥터 기능(CONNECTOR FUNCTION)

-각부의 커넥터의 기본 기능은 다음과 같다.

1) CONNECTOR

NO.	CONNECTOR NAME	MAKER	TYPE NO.	QTY
CN1	INPUT SIGNAL	MOLEX	53398-1090	1
CN2	OUTPUT SIGNAL	MOLEX	53398-1090	1
CN3	SOURCES OF ELECTRICITY	MOLEX	53398-0590	1

2) SOURCE OF ELECTRICITY

NO.	LINE NAME	FUNCTION
1	GND	GROUND FOR CIRCUIT AND LED
2	GND	GROUND FOR CIRCUIT AND LED
3	VCC	SUPPLY VOLTAGE FOR CIRCUIT
4	VLED	SUPPLY VOLTAGE FOR LED
5	VLED	SUPPLY VOLTAGE FOR LED



9. INPUT/OUPUT SIGNAL

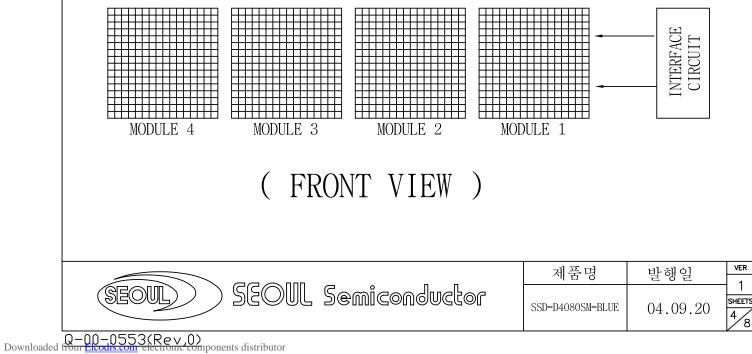
INPU	UT SIGNAL(CN1) OU		T SIGNAL(CN2)	POWER(CN3)	
NO	SIGNAL NAME	NO	SIGNAL NAME	NO	SIGNAL NAME
1	BLUE DATA	1	BLUE DATA	1	GND
2	CLOCK	2	CLOCK	2	GND
3	LATCH	3	LATCH	3	VCC
4	АО	4	AO	4	VLED
5	A1	5	A1	5	VLED
6	A2	6	A2		
7	A3	7	A3		
8	ENABLE	8	ENABLE		
9	NC	9	NC		
10	GROUND	10	GROUND		

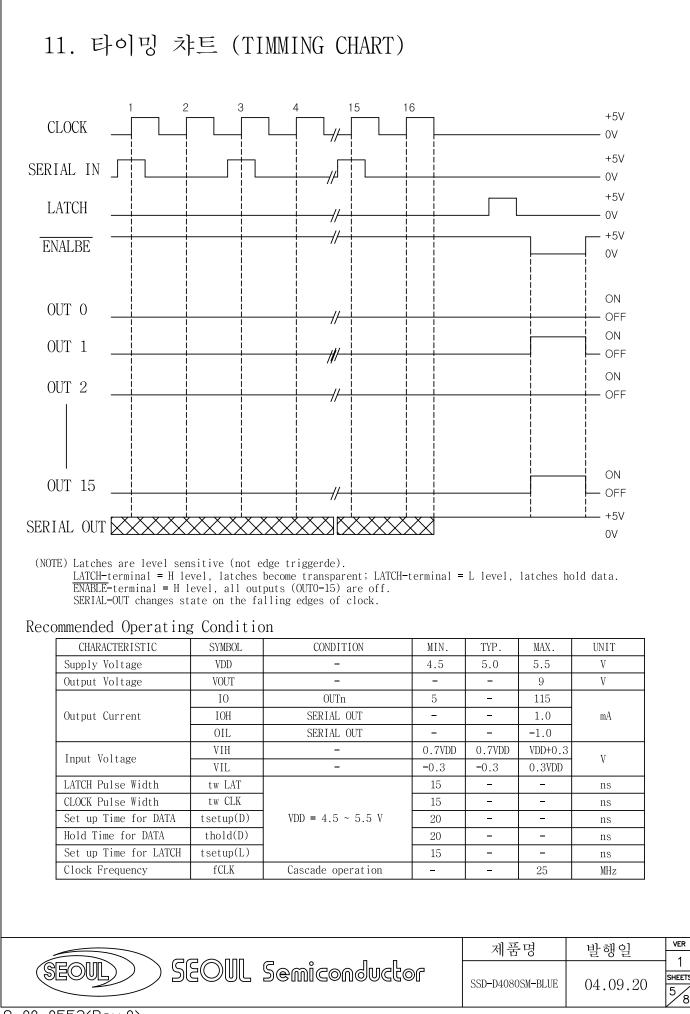
NO	CONNECTOR NAME	MAKER	TYPE NO.	QTY
1	INPUT SIGNAL (CN1)	MOLEX	53398-1090	1
2	OUTPUT SIGNAL(CN2)	MOLEX	53398-1090	1
3	POWER(CN3)	MOLEX	53398-0590	1

10. 신호선 접속(SIGNAL CABLE CONNECTION)

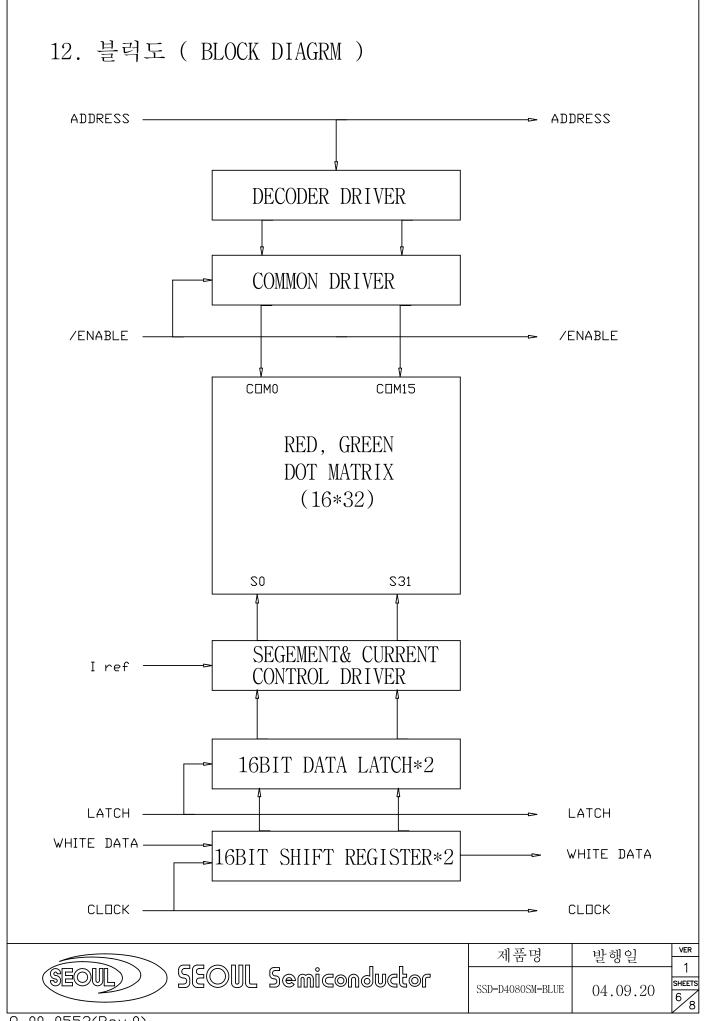
1) DATA 진행방향 (DYNAMIC MODULE 적용)

DIRECTION OF DATA SHIFT

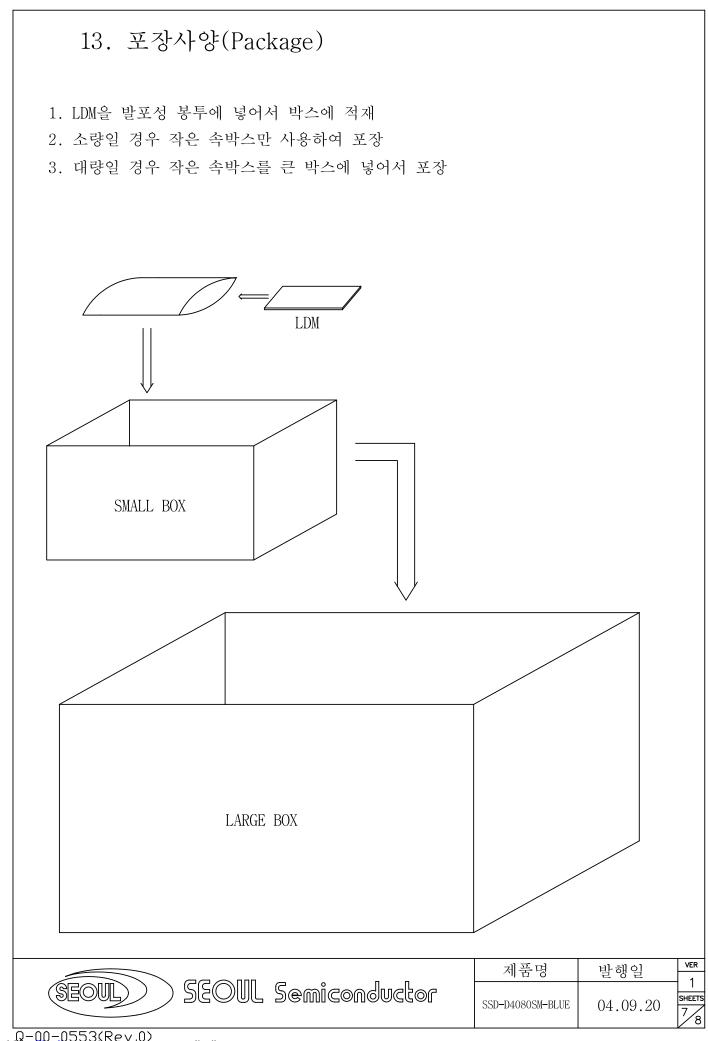




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14. 취급및 설치시 주의사항 (SAFETY)

- 입력 범위 이상의 전원이나 역전압이 LED MODULE에 유입될시는 내부회로 가 손상되오니 입력전압 범위를 반드시 지켜주시기 바랍니다.
- Backward voltage or overvoltage flows in the LED module can damage the internal circuits. Please operate the module under the permitted scope of voltage supply.
- 높은 습도나 누수에 의해 LED MODULE의 고장 원인이 될수 있읍니다.

- High humidity and leak can damage LED module.

- DISPLAY PANEL의 수가 많을경우 및 배기시설이 양호하지 않을 경우에는
 LED 발열에의한 MODULE의 손상과 오동작이 발생될수 있으므로 필요시
 COOLING FAN을 설치하시기 바랍니다.
- Install a cooling fan for cooling out the LED module in order to avoid damage or operateing failure caused by the heat when many display panels are attached to one board or the module is operated under ill-ventilated conditions.
- LED DOT MATRIX MODULE에 충격및 진동을 가할 경우 DOT불량, 단선등의 원인이 될수 있으므로 삼가하여 주시기 바랍니다.
- LED Module could be damaged or broken by a shock or collision.
- LED MODULE에 찍힘이나 긁힘이 발생하지 않도록 주의하시기 바랍니다.
- Be careful not to scratch or impact the LED Module.
- MODULE을 취급, 보관할경우 정전기 방지 포장을 하여 주십시요.
- Treat or keep under the condtion of static electricity-proof packing.
- Twiste cable 또는 Shield wire는 고주파 잡음으로 부터 module을 보호 하여 안정된 동작을 할수 있으므로 필히 사용 하십시요.
- It is recommended to use twist cable or shielded wire to protect the module from high-freqiency nosie and to secure stable operation.

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