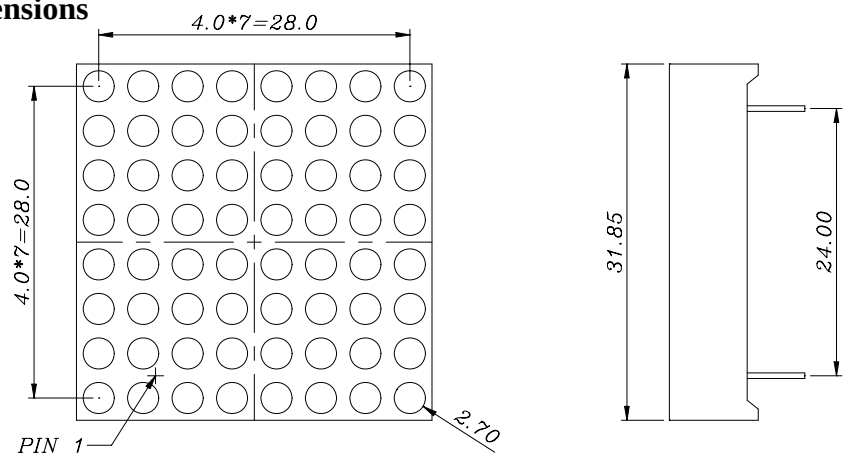
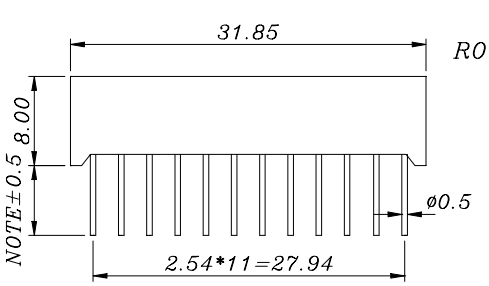
SHARLIGHT ELECTRONICS CO., LTD.

SPECIFICATION FOR APPROVAL

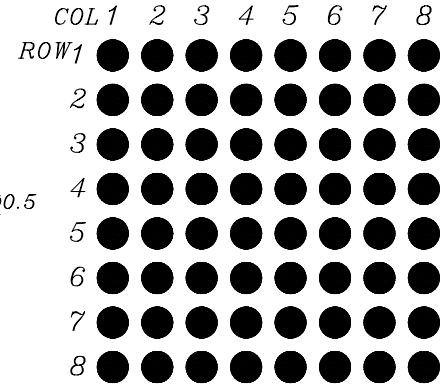
Part No.：CMD-3881320

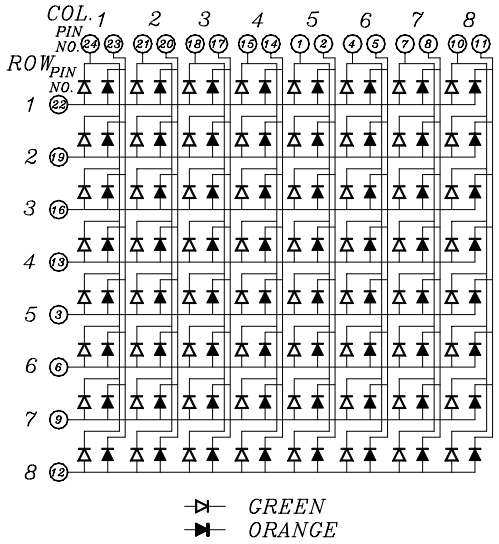
Package Dimensions





NOTE	S	E	T
	2.86	3.4	5.38





1. CATHODE COLUMN 5G
2. CATHODE COLUMN 5
3. ANODE ROW 5
4. CATHODE COLUMN 6G
5. CATHODE COLUMN 6
6. ANODE ROW 6
7. CATHODE COLUMN 7G
8. CATHODE COLUMN 7
9. ANODE ROW 7
10. CATHODE COLUMN 8G
11. CATHODE COLUMN 8
12. ANODE ROW 8
13. ANODE ROW 4
14. CATHODE COLUMN 4
15. CATHODE COLUMN 4G
16. ANODE ROW 3
17. CATHODE COLUMN 3
18. CATHODE COLUMN 3G
19. ANODE ROW 2
20. CATHODE COLUMN 2
21. CATHODE COLUMN 2G
22. ANODE ROW 1
23. CATHODE COLUMN 1
24. CATHODE COLUMN 1G

Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is ±0.30mm(.012") unless otherwise noted.

3. Protruded resin under flange is 1.0mm(.04") max.

4. Lead spacing is measured where the leads emerge from the package.

5. Specifications are subject to change without notice.

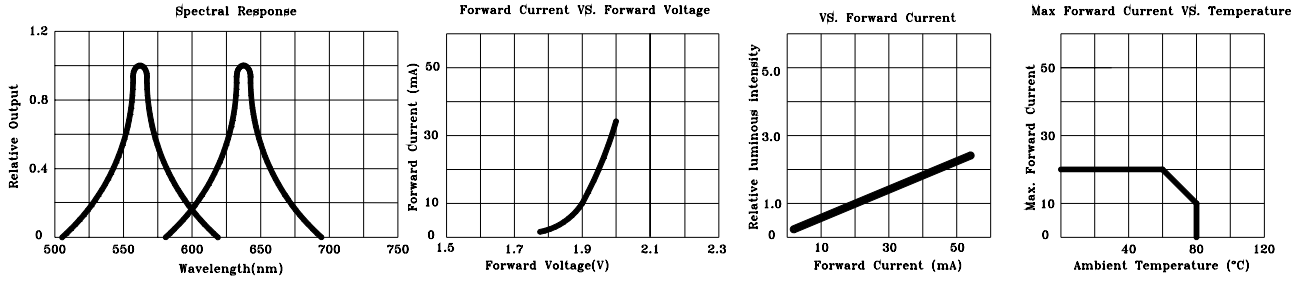
Electrical / Optical Characteristics at TA=25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Average Luminous Intensity	(O)I_V	1	5		mcd	IF = 20mA
	(G)I_V	5	10		mcd	IF = 20mA
Peak Emission Wavelength	(O) λ_p		639		nm	IF = 20mA
	(G) λ_p		565		nm	IF = 20mA
Dominant Wavelength	(O) λ_d	620	631	636	nm	IF = 20mA
	(G) λ_d	565	569	576	nm	IF = 20mA
Spectral Line Half-Width	(O)$\Delta\lambda$		20		nm	IF = 20mA
	(G)$\Delta\lambda$		30		nm	IF = 20mA
Forward Voltage	(O)V_F		1.9	2.4	V	IF = 20mA
	(G)V_F		2.1	2.6		
Reverse Current	I_R			100	μA	VR = 5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF = 20mA

Absolute Maximum Ratings at TA=25℃

Parameter	Maximum Rating		Unit
Average Power Dissipation Per Dot	O	24	mW
	G	26	mW
Peak Forward Current Per Dot (1/10 Duty Cycle, 0.1ms Pulse Width)	O	100	mA
	G	100	mA
Continuous Forward Current	O	10	mA
	G	10	mA
Reverse Voltage	5		V
Operating Temperature Range	-20℃ to + 80℃		
Storage Temperature Range	-55℃ to + 100℃		
Lead Soldering Temperature [4.0mm(.157") From Body]	260℃ for 5 Seconds		
Reflow Soldering	NO		

TYPICAL ELECTRON-OPTICAL CHARACTERISTIC CURVES
25°C Free Air Temperature Unless Otherwise Specified

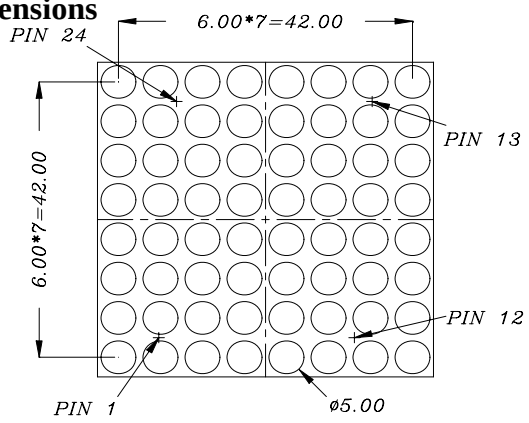


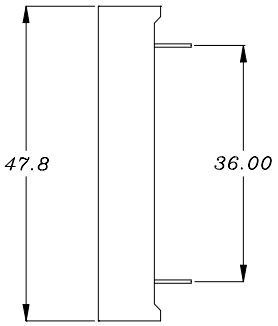
SHARLIGHT ELECTRONICS CO., LTD.

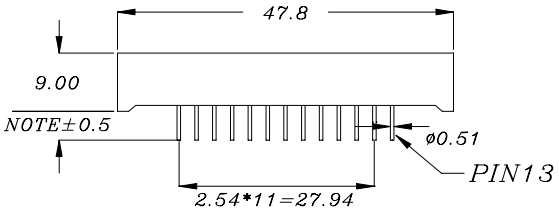
SPECIFICATION FOR APPROVAL

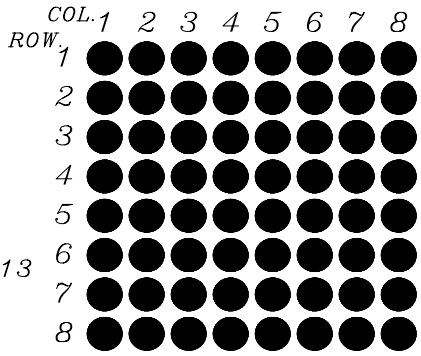
Part No.：CMD-5881KNC

Package Dimensions

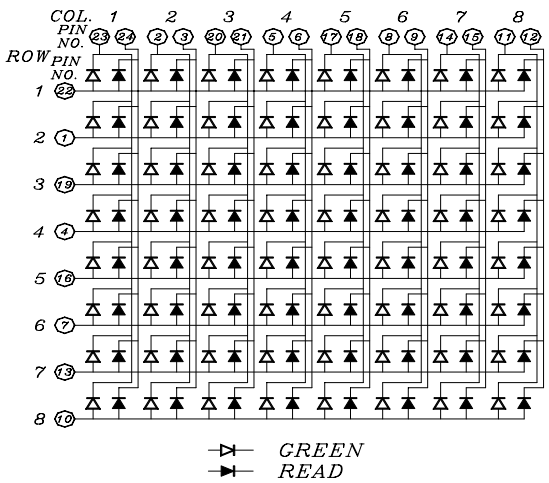








NOTE	S	E	T
	1.76	2.3	4.28



1. ANODE ROW 2
2. CATHODE COLUMN 2G
3. CATHODE COLUMN 2
4. ANODE ROW 4
5. CATHODE COLUMN 4G
6. CATHODE COLUMN 4
7. ANODE ROW 6
8. CATHODE COLUMN 6G
9. CATHODE COLUMN 6
10. ANODE ROW 8
11. CATHODE COLUMN 8G
12. CATHODE COLUMN 8
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22. ANODE ROW 1
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Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is ±0.30mm(.012") unless otherwise noted.

3. Protruded resin under flange is 1.0mm(.04") max.

4. Lead spacing is measured where the leads emerge from the package.

5. Specifications are subject to change without notice.

Electrical / Optical Characteristics at TA=25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Average Luminous Intensity	IV(R)	10	15		mcd	IF = 20mA
	IV(G)	10	18			
Peak Emission Wavelength	λP(R)		660		nm	IF = 20mA
	λP(G)		565			
Dominant Wavelength	λd(R)	635	639	650	nm	IF = 20mA
	λd(G)	565	569	576		
Spectral Line Half-Width	Δλ(R)		20		nm	IF = 20mA
	Δλ(G)		30			
Forward Voltage	VF(R)		1.9	2.4	V	IF = 20mA
	VF(G)		2.1	2.6		
Reverse Current	IR			100	μA	VR = 5V

Absolute Maximum Ratings at TA=25℃

Parameter	Maximum Rating	Unit
Power Dissipation	40	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	90	mA
Continuous Forward Current	15	mA
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-20℃ to + 80℃	
Storage Temperature Range	-55℃ to + 100℃	
Lead Soldering Temperature [4mm(.157") From Body]	260℃ for 5 Seconds	
Reflow Soldering	NO	

TYPICAL ELECTRON-OPTICAL CHARACTERISTIC CURVES
25°C Free Air Temperature Unless Otherwise Specified