



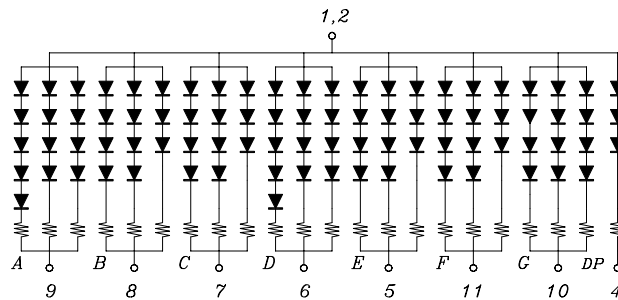
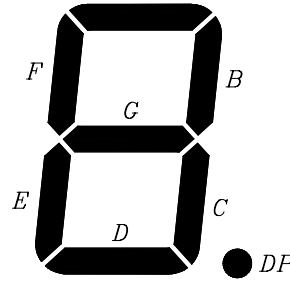
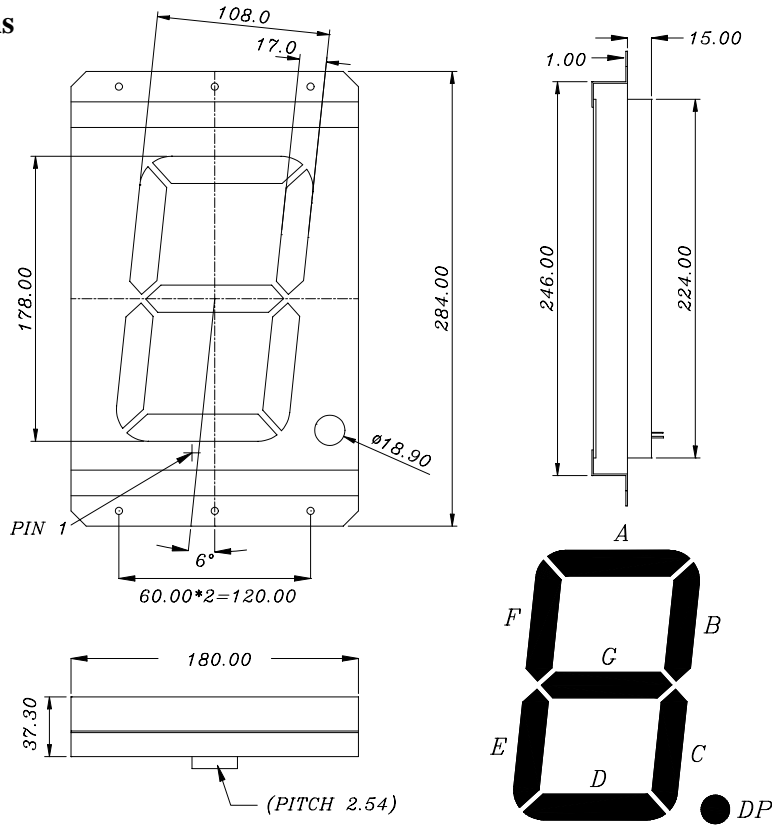
SHARLIGHT ELECTRONICS CO., LTD.

SPECIFICATION FOR APPROVAL

Part No. : CM1-7002U00

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Package Dimensions



3,12,13 NO CONNECT

1 COMMON ANODE	8 CATHODE B
2 COMMON ANODE	9 CATHODE A
3 NO CONNECT	10 CATHODE G
4 CATHODE DP	11 CATHODE F
5 CATHODE E	12 NO CONNECT
6 CATHODE D	13 NO CONNECT
7 CATHODE C	

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.30\text{mm}(.010\text{'})$ 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	50	85	190	mcd	IF = 60mA
Peak Emission Wavelength	P		660		nm	IF = 60mA
Dominant Wavelength	d	635	639	650	nm	IF = 60mA
Spectral Line Half-Width			20		nm	IF = 60mA
Forward Voltage, any Segment or D..P.	VF		12.0	12.5	V	IF = 60mA
	VF(DP)		12.5	13.0		IF = 20mA
Reverse Current, any Segment or D..P	IR			100	μA	VR = 5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF = 60mA

Absolute Maximum Ratings at TA=25

Parameter	Maximum Rating	Unit
Power Dissipation	70	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	90	mA
Continuous Forward Current	25	mA
Derating Linear From 30	0.33	mA/
Reverse Voltage	5	V
Operating Temperature Range	-20 to + 80	
Storage Temperature Range	-55 to + 100	
Lead Soldering Temperature [1.6mm(.063") From Body]	260 for 5 Seconds	

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

