

**SPECIFICATION FORM****FEATURES**

- ◇ 38.00MM×56.00MM OUTLINE
- ◇ 1.8 INCHES (45.00MM) DIGIT HEIGHT
- ◇ SINGLE DIGIT
- ◇ SINGLE COLOR
- ◇ HIGH BRIGHTNESS
- ◇ EASY ASSEMBLY
- ◇ SOLID STATE RELIABILITY

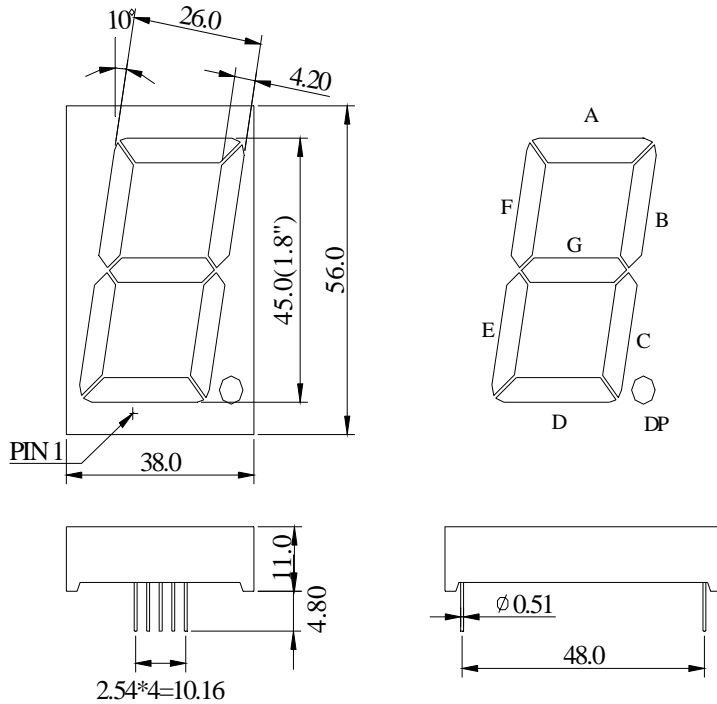
**DESCRIPTION**

The REC-S18102CG is a 1.8 inches (45.00mm) digit height, 38.00mm×56.00mm outline, single color, single digit, common cathode numeric display. This display utilizes yellow-green LED chips fabricated from GaP epiwafer on GaP substrate grown by liquid phase epitaxy. The devices have black face and white segments.

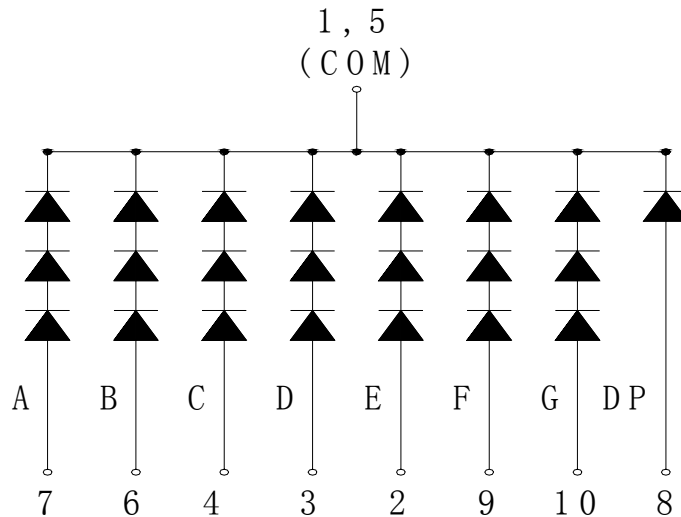
**DEVICE**

<b>PART NO.</b>	<b>EMITTING COLOR</b>	<b>DESCRIPTION</b>
REC-S18102CG	Yellow-Green	Black face, White Segments.

**PACKAGE DIMENSION**



**INTERNAL CIRCUIT DIAGRAM**



**PIN CONNECTION**

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Cathode	6	Anode B
2	Anode E	7	Anode A
3	Anode D	8	Anode DP
4	Anode C	9	Anode F
5	Anode	10	Anode G

**ABSOLUTE MAXIMUM RATING AT  $T_A=25^\circ\text{C}$** 

PARAMETER	SYMBOL	MAXIMUM	UNIT
Power Dissipation per dot	$P_{AD}$	225	mW
Peak Forward Current per dot (1/10 duty cycle, 0.1ms pulse width)	$I_{PF}$	80	mA
Continuous Forward Current per dot	$I_{AF}$	20	mA
Reverse Voltage per dot	$V_R$	15	V
Operating Temperature Range, $T_{opr}$	- 25° C to + 80° C		
Storage Temperature Range, $T_{stg}$	- 30° C to + 85° C		
Solder Temperature : 1 / 16 inch below seating plane for 3 seconds at 260° C			

**ELECTRO - OPTICAL CHARACTERISTICS AT  $T_A=25^\circ\text{C}$** 

PARAMETER	UNIT	MIN	TYPE	MAX
Luminous Intensity per chip, $I_V$ ( $I_F=20\text{mA}$ )	mcd	10	12	13
Peak Emission Wavelength, $\lambda_p$ ( $I_F=20\text{mA}$ )	nm		570	
Special Line Half-Width, $\Delta\lambda$ ( $I_F=20\text{mA}$ )	nm		20	
Forward Voltage per chip, $V_F$ ( $I_F=20\text{mA}$ )	V	2.1	2.3	2.5
Reverse Current per chip, $I_R$ , ( $V_R=5\text{V}$ )	$\mu\text{A}$			100
Luminous Intensity Matching Ratio, $I_{V-m}$ ( $I_F=20\text{mA}$ )				2 : 1