

# RAYCONN ELECTRONICS CO., LTD.

## SPECIFICATION FORM

### FEATURES

- ✧ 0.28 INCHES (7.00MM) DIGIT HEIGHT
- ✧ 22.53MM×10.00MM OUTLINE
- ✧ THREE DIGIT
- ✧ MONO COLOR
- ✧ EASY ASSEMBLY
- ✧ SUPER BRIGHTNESS
- ✧ SOLID STATE RELIABILITY

### DESCRIPTION

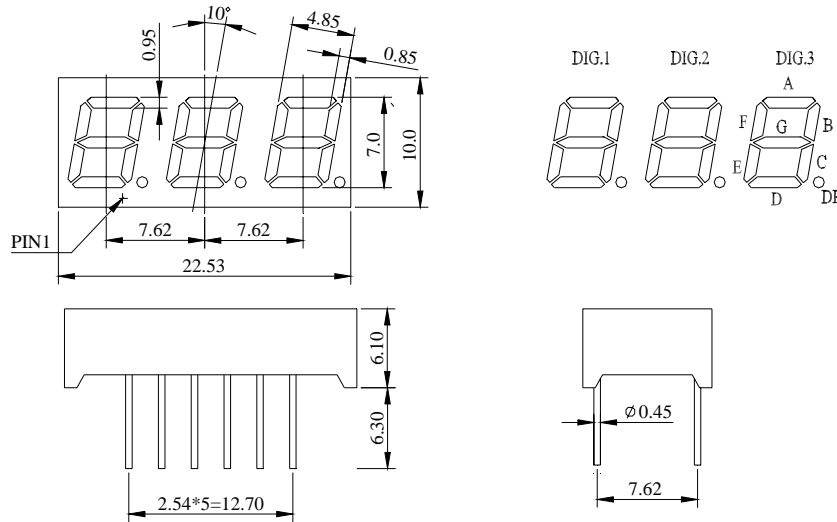
The REC-S2381CSR is a 0.28 inches (7.0mm) digit height, 22.53mm×10.0mm outline, single color, three digit & common cathode numeric display. This display utilizes super-red LED chips fabricated from GaAlAs epiwafer on GaAs substrate grown by liquid phase epitaxy. These devices have black face and white segments.

### DEVICE

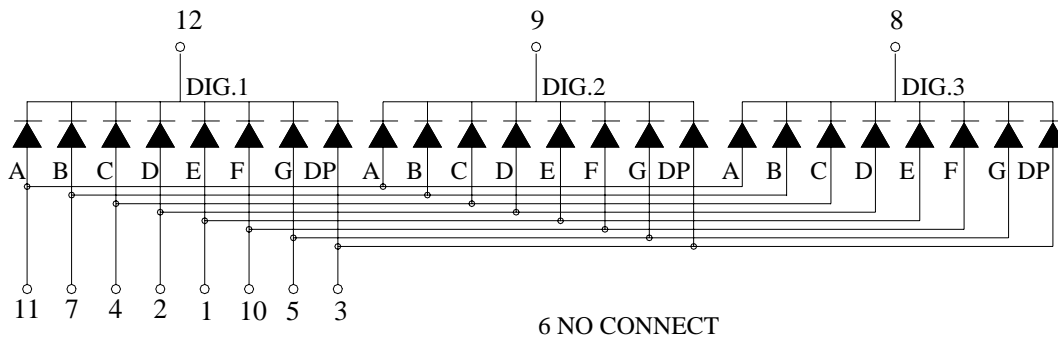
PART NO.	EMITTING COLOR	DESCRIPTION
REC-S2381CSR	Super-Red	Black Face With White Segments

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## PACKAGE DIMENSION



## INTERNAL CIRCUIT DIAGRAM



## PIN CONNECTION

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Anode E	7	Anode B
2	Anode D	8	Cathode Dig.2
3	Anode DP	9	Cathode Dig.2
4	Anode C	10	Anode F
5	Anode G	11	Anode A
6	No Connect	12	Cathode Dig.2

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

PARAMETER	SYMBOL	MAXIMUM	UNIT
Power Dissipation per Seg.	$P_{AD}$	60	mW
Peak Forward Current per Seg.	$I_{PF}$	80	mA
Continuous Forward Current per Seg.	$I_{AF}$	20	mA
Reverse Voltage per Seg.	$V_R$	5	V
Operating Temperature Range, $T_{opr}$		- 25° C to + 60° 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 Seg., $I_V$ ( $I_F=20\text{mA}$ )	mcd	7	10	12
Peak Emission Wavelength, $\lambda_P$ ( $I_F=20\text{mA}$ )	nm		640	
Special Line Half-Width, $\Delta\lambda$ ( $I_F=20\text{mA}$ )	nm		20	
Forward Voltage per Seg., $V_F$ ( $I_F=20\text{mA}$ )	V	1.6	1.8	2.30
Reverse Current per chipSeg., $I_R$ , ( $V_R=5\text{V}$ )	$\mu\text{A}$			100
Luminous Intensity Matching Ratio, $I_{V-m}$ ( $I_F=20\text{mA}$ )				2 : 1