RAYCONN™

RAYCONN ELECTRONICS CO., LTD.

SPECIFICATION FORM

FEATURES

- ✧ 0.80 INCHES (20.20MM) DIGIT HEIGHT
- ✧ 18.60MM×25.0MM OUTLINE
- ✧ SINGLE DIGIT
- ✧ SINGLE COLOR
- ✧ EASY ASSEMBLY
- ✧ HIGH BRIGHTNESS
- ✧ SOLID STATE RELIABILITY

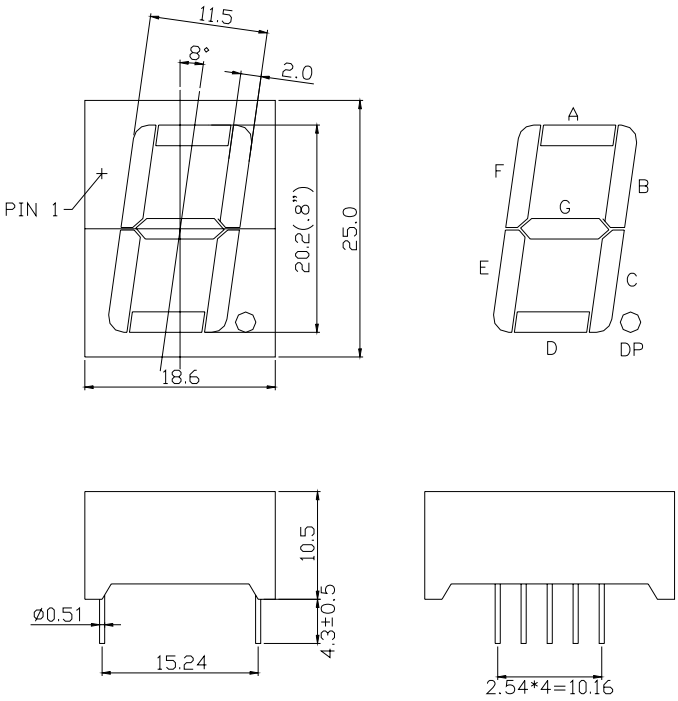
DESCRIPTION

The REC-S8105CSR-3 is a 0.80 inches (20.20mm) digit height, 18.60mm×25.0mm outline, single color, single digit with common cathode numeric display. The display utilizes high-orange LED chips fabricated from GaAsP epiwafer on GaP substrate grown by liquid phase epitaxy. These devices have black face and white segments.

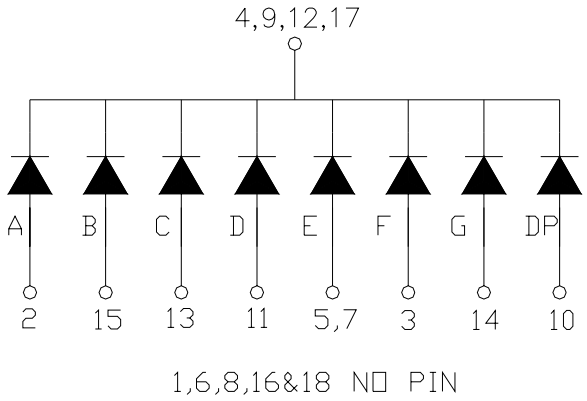
DEVICE

PART NO.	EMITTING COLOR	DESCRIPTION
REC-S8105CSR-3	Super-Red	Black Surface & White Segments

PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	No pin	10	Anode DP
2	Anode A	11	Anode D
3	Anode F	12	Common Anode
4	Common Anode	13	Anode C
5	Anode E	14	Anode G
6	No pin	15	Anode B
7	Anode E	16	No pin
8	No pin	17	Common Anode
9	Common Anode	18	No pin

ABSOLUTE MAXIMUM RATING AT T_A=25°C

PARAMETER	SYMBOL	MAXIMUM	UNIT
Power Dissipation per Seg.	P_{AD}	65	mW
Peak Forward Current per Seg. (1/10 Duty Cycle, 0.1ms Pules Width)	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 + 85°C		
Storage Temperature Range, T_{stg}	- 30°C to + 90°C		
Solder Temperature : 1 / 16 inch below seating plane for 3 seconds at 260°C			

ELECTRO - OPTICAL CHARACTERISTICS AT T_A=25°C

PARAMETER	UNIT	MIN	TYPE	MAX
Luminous Intensity per Seg., I_V (I_F=20mA)	mcd	8	13	15
Peak Emission Wavelength, λ_P (I_F=20mA)	nm		645	
Special Line Half-Width, $\Delta\lambda$ (I_F=20mA)	nm		30	
Forward Voltage per Seg., V_F (I_F=20mA)	V	1.7	2.1	2.4
Reverse Current per Seg., I_R, (V_R=5V)	μA			100
Luminous Intensity Matching Ratio, I_{V-m} (I_F=20mA)				2 :1