RAYCONN™

RAYCONN ELECTRONICS CO., LTD.

SPECIFICATION FORM

FEATURES

- ✧ 29.80MM×53.80MM OUTLINE
- ✧ SINGLE DIGIT
- ✧ SINGLE COLOR
- ✧ EASY ASSEMBLY
- ✧ HIGH BRIGHTNESS
- ✧ SOLID STATE RELIABILITY

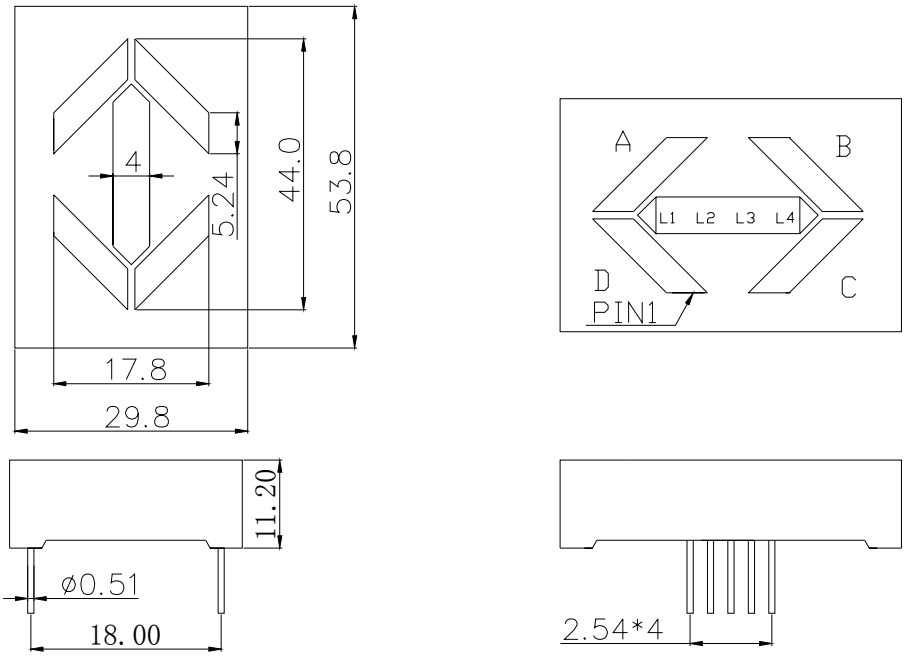
DESCRIPTION

The REC-A1701AB is a 29.80mm×53.80mm outline, single color, single digit, common anode numeric display. This display utilizes blue LED chips fabricated from GaN epiwafer on SiC substrate grown by liquid phase epitaxy. These devices have black surface and white segments.

DEVICE

PART NO.	EMITTING COLOR	DESCRIPTION
REC-A1701AB	Blue	Black Face & White Segments

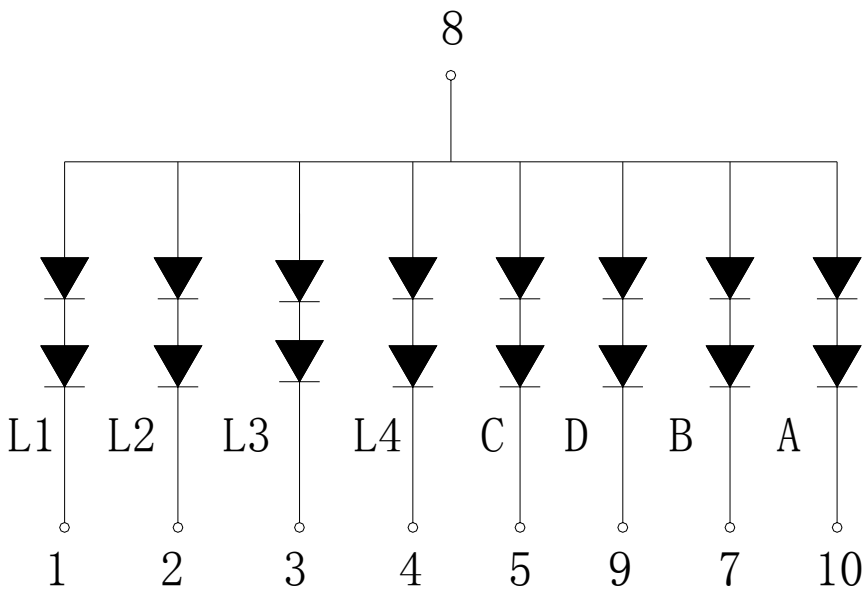
PACKAGE DIMENSION



Notes:1. All Dimensions are in millimeters.

2. Tolerance is ±0.25mm unless otherwise specified.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Cathode L1	6	No Pin
2	Cathode L2	7	Cathode B
3	Cathode L3	8	Anode
4	Cathode L4	9	Cathode D
5	Cathode C	10	Cathode A

ABSOLUTE MAXIMUM RATING AT T_A=25°C

PARAMETER	SYMBOL	MAXIMUM	UNIT
Power Dissipation per Seg.	P_{AD}	160	mW
Peak Forward Current per Seg.		100	mA
Continuous Forward Current per Seg.	I_{AF}	20	mA
Reverse Voltage per Seg.	V_R	10	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°C

PARAMETER	UNIT	MIN	TYPE	MAX
Luminous Intensity per Seg., I_V (I_F=20mA)	mW	9	10	
Peak Emission Wavelength, λ_P (I_F=20mA)	nm		470	
Special Line Half-Width, $\Delta\lambda$ (I_F=20mA)	nm		20	
Forward Voltage per Seg., V_F (I_F=20mA)	V	3.0	3.5	4.0
Reverse Current per Seg., I_R, (V_R=5V)	μA			100
Luminous Intensity Matching Ratio, I_{V-m} (I_F=20mA)				2 :1