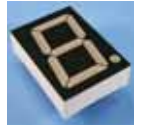


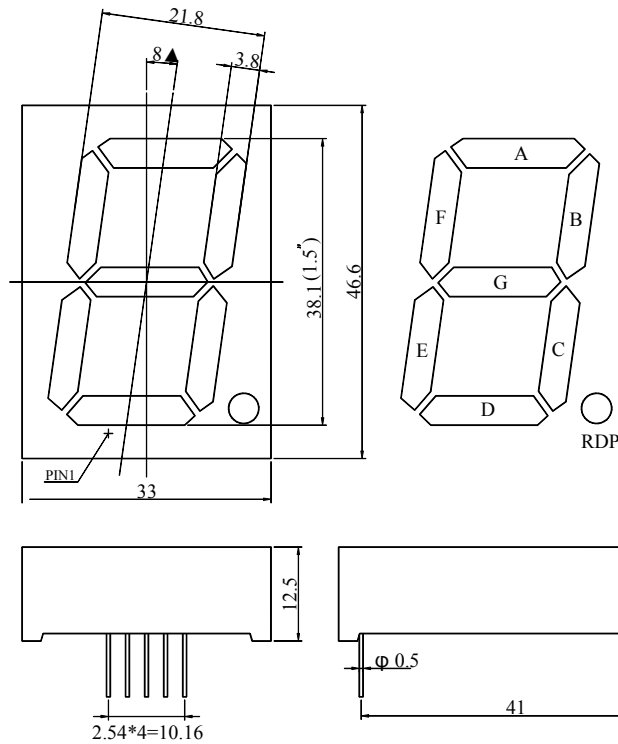
DATA SHEET for LED DISPLAY

38.1mm(1.5") Seven Segments Single Digit



Part No.		Dice Color	
YDUR-115K(A)M-23		High Red	
Material	Color of Segment	Surface Color	
GaAlAs	White Diffused	Black	

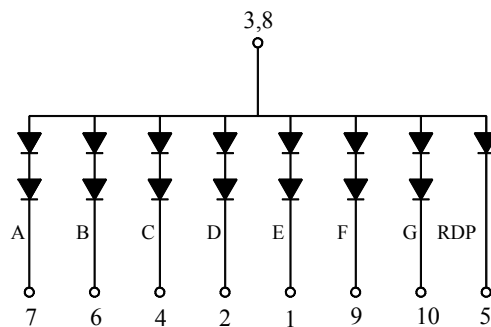
Package Dimensions :



Notes :

- 1) All dimensions are in millimetres (mm), Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted.
- 2) Specifications are subject to change without notice.

Internal Circuit Diagram :



YDUR-115KM-23

YDUR-115AM-23

Absolute Maximum Rating of Each Segment (Ta=25°C)

Parameter	Symbol	Maximum Rating	Unit
Power Dissipation/seg.	P _M	100	mW
Peak Forward Current /seg. (Duty 1/10@ 1KHz)	I _{FP}	60	mA
Continuous Forward Current/seg.	I _F	20	mA
Recommend Use Current/seg. (※)	I _F	5 ~ 10	mA
Reverse Voltage	V _R	8	V
Operation Temperature	T _{opr}	- 25°C ~ 75°C	°C
Storage Temperature	T _{stg}	- 30°C ~ 85°C	°C
Soldering Temperature (time 5 seconds.)	T _{sol}	260±5	°C

Note : It is recommended that the product is driven by TTL,CMOS.

Electron-Optical Characteristics of Each Segment (Ta=25°C)

Parameter	Symbol	Typ.	Max.	Unit	Test Condition
Luminous Intensity/seg.	I _v	28		mcd	I _F =20mA
Forward Voltage/seg.	V _F	3.9	5.0	V	I _F =20mA
Reverse Current/seg.	I _R		50	μA	V _R =5V
Peak Wavelength	λ _p	645		nm	I _F =20mA
Spectral Line Half Width	Δλ	30		nm	I _F =20mA

Reliability Test Items and Conditions

Test Item	Test Conditions	Duration	Sample	Ac/Re
Temperature Cycle	-40°C(30 min.) ~ 25°C(5 min.) ~ 100°C(30 min.) ~ 25°C(5 min.)	50 cycles	100	0/1
High Temp. Storage	Ta=100°C	1,000 hours	100	0/1
Temp. & Humidity Test	Ta=85°C, RH=85%	1,000 hours	100	0/1
Low Temp. Storage	Ta=-40°C	1,000 hours	100	0/1
Operating Life Test	Ta=25±5°C DC IF=20mA	1,000 hours	100	0/1
Solder Heat	Tsol=260±5°C, 10s	1 time	20	0/1

Typical Electro- Optical Characteristic Curves :

