SUPER BRIGHT LED NUMERIC DISPLAY

▼DESCRIPTION OF TYPE NO.

A A R 1 0 1

- **A** — Alpha Numeric
- **A** — Common: A: Anode, K: Cathode
- **R** — Emitted Color: R: Red, G: Pure Green, Y: Yellow, A: Orange
- **1** — No. of Digit
- **0** — Character Height: 0: 25mm, 2: 50mm
- **1** — Face Color: 1: Black, 3: Gray

▼CHARACTERISTICS BY COLOR

Ta=25℃

Size	Type No.	Material (Emitted color)	※	Absolute Maximum Ratings: Power Dissipation Pd	Forward current IF	Peak Forward current IFM	Reverse Voltage VR	Operating Temp. Topr	Storage Temp. Tstg	Electro-Optical Characteristics: Forward Voltage VF TYP.	Forward Voltage VF MAX.	IF	Reverse Current IR MAX.	VR	Wavelength λp TYP.	VR	Derating ΔIF
25	AAR	GaAlAs (Red)	1	50	25	100	4	-20~+85	-20~+100	1.7	2.0	20	100	4	660	20	0.4
	AKR		2	100			8			3.4	4.0			8			
	AAG	GaP (Pure Green)	1	60	25	100	4	-20~+85	-20~+100	2.2	2.5	20	100	4	555	20	0.33
	AKG		2	120			8			4.4	5.0			8			
	AAY	GaAsP/GaP (Yellow)	1	60	25	100	4	-20~+85	-20~+100	2.2	2.5	20	100	4	580	20	0.33
	AKY		2	120			8			4.4	5.0			8			
	AAA	GaAsP/GaP (Orange)	1	60	25	100	4	-20~+85	-20~+100	2.2	2.5	20	100	4	605	20	0.33
	AKA		2	120			8			4.4	5.0			8			
50	AAR	GaAlAs (Red)	4	200	50	240	8	-30~+70	-30~+80	3.4	4.0	40	20	8	660	40	0.66
	AKR		2	100	25	120						20	10			20	0.33
	AAG	GaP (Pure Green)	4	200	40	200	8	-30~+70	-30~+80	4.2	5.0	40	20	8	555	40	0.66
	AKG		2	100	20	100						20	10			20	0.33
	AAY	GaAsP/GaP (Yellow)	4	200	40	200	8	-30~+70	-30~+80	4.2	5.0	40	20	8	580	40	0.66
	AKY		2	100	20	100						20	10			20	0.33
	AAA	GaAsP/GaP (Oreange)	4	200	40	200	8	-30~+70	-30~+80	4.2	5.0	40	20	8	605	40	0.66
	AKA		2	100	20	100						20	10			20	0.33
mm	Units			mW	mA	mA	V	℃		V		mA	μA	V	nm	mA	mA/℃

● Rating and specifications are for each segment.

▼CHARACTERISTICS BY SHAPE (25/50 mm TYPE)

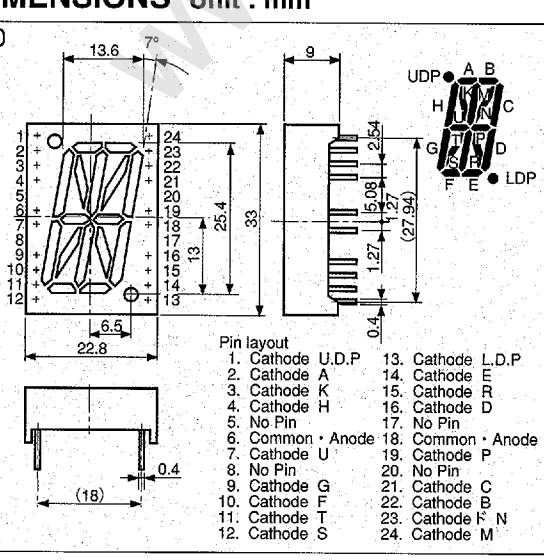
Ta=25℃

Case Size (W×H)	Shape	Type No.: Anode Common	Cathode Common	Emitted Color	※	Luminous Intensity Iv Rank A MIN.	Rank A TYP.	Rank B MIN.	Rank B TYP.	Rank C MIN.	Rank C TYP.	IF	fig.
22.8 × 33		AAR101/103	AKR101/103	Red	1	3	6	6	12	12	15	20	20
					2	6	12	12	24	24	30		
		AAG101/103	AKG101/103	Green	1	0.5	1	1	2	—	—	20	
					2	1	2	2	4	—	—		
		AAY101/103	AKY101/103	Yellow	1	1	2	2	4	—	—	20	
					2	2	4	4	8	—	—		
		AAA101/103	AKA101/103	Orange	1	1	2	2	4	—	—	20	
					2	2	4	4	8	—	—		
40 × 74		AAR121	AKR121	Red		—	—	4	6	—	—	40※	21
		AAG121	AKG121	Green		—	—	1	1.5	—	—	40※	
		AAY121	AKY121	Yellow		—	—	2	3	—	—	40※	
		AAA121	AKA121	Orange		—	—	2	3	—	—	40※	
mm	Units					mcd						mA	

※ 20 mA/segment is for segments A,B,E,F,U and P.

▼DIMENSIONS Unit : mm

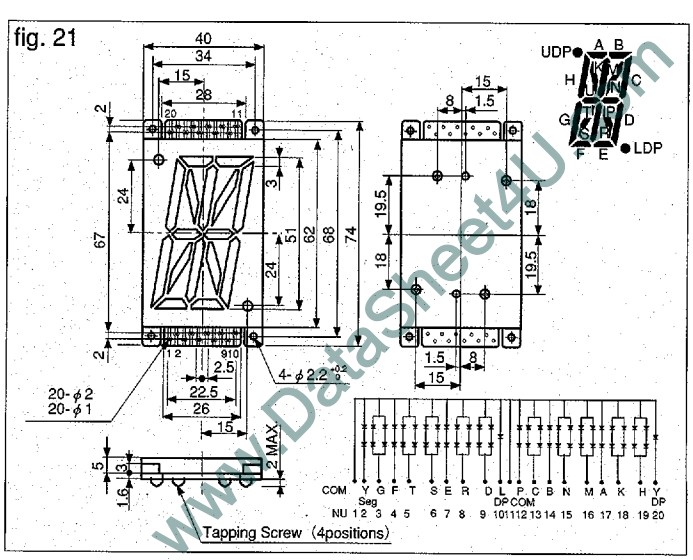
fig. 20



Pin layout

1. Cathode U.D.P	13. Cathode L.D.P
2. Cathode A	14. Cathode E
3. Cathode K	15. Cathode R
4. Cathode H	16. Cathode D
5. No Pin	17. No Pin
6. Common・Anode	18. Common・Anode
7. Cathode U	19. Cathode P
8. No Pin	20. No Pin
9. Cathode G	21. Cathode C
10. Cathode F	22. Cathode B
11. Cathode T	23. Cathode N
12. Cathode S	24. Cathode M

fig. 21



● Common cathode types have a reverse polarity ● Tolerance: ±0.25 mm.

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