

SUPER BRIGHT LED NUMERIC DISPLAY

DESCRIPTION ON TYPE NO.

A A R 1 0 1

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

CHARACTERISTICS BY COLOR

Ta=25°C

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

CHARACTERISTICS BY SHAPE (1.0"/2.0" TYPE)

● Rating and specifications are for each segment.

Ta=25°C

Case Size (W×H)	Shape	Type No.		Emitted Color	※	Luminous Intensity Iv						fig.	
		Anode Common	Cathode Common			Rank A		Rank B		Rank C			If
						MIN.	TYP.	MIN.	TYP.	MIN.	TYP.		
22.8 × 33		AAR101/103	AKR101/103	Red	1	3	6	6	12	12	15	20	
		AAG101/103	AKG101/103	Green	2	0.5	1	1	2	—	—		
		AAAY101/103	AKY101/103	Yellow	1	1	2	2	4	—	—		
		AAA101/103	AKA101/103	Orange	2	2	4	4	8	—	—		
		1	1	2	2	4	—	—	20*				
40 × 74		AAR121	AKR121	Red	—	—	4	6	—	—	40*	21	
		AAG121	AKG121	Green	—	—	1	1.5	—	—	40*		
		AAAY121	AKY121	Yellow	—	—	2	3	—	—	40*		
		AAA121	AKA121	Orange	—	—	2	3	—	—	40*		
mm		Units		mcd						mA			

DIMENSIONS Unit : mm

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

fig. 20

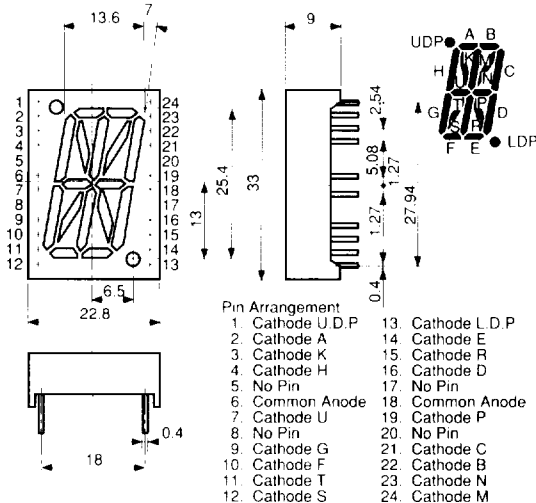
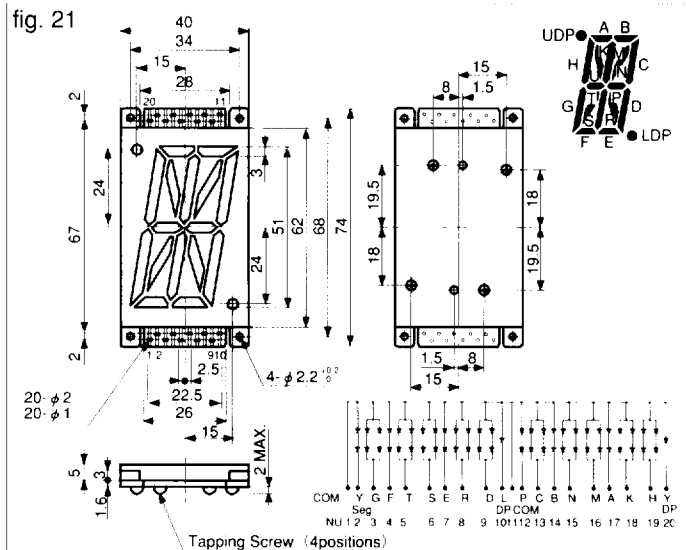


fig. 21



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