Description of Part Number

A	A	R	1	0	1
Alpha Numeric	Common A: Anode	Emitted Color R: Red A: Orange	No. of Digit	Character Height 0: 24~26mm 2: 50~52mm	Face Color 1: Black

Characteristics by Color

Ta=25°C

Size	Part 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.	VF MAX.	IF	Reverse Current IR MAX.	IR VR	Wavelength λp TYP.	λp 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	0.33
			2	100			8			3.4	4.0			8			
	AAA	GaAsP (Orange)	1	60	25	100	4	-20~+85	-20~+100	2.2	2.5	20	100	4	605	20	0.33
			2	120			8			4.4	5.0			8			
50	AAR	GaAlAs (Red)	4	200	40	200	8	-30~+70	-30~+80	1.7	2.0	40	20	8	660	40	0.66
			2	100	20	100						20	10			20	0.33
	AAA	GaAsP (Orange)	4	200	40	200	8	-30~+70	-30~+80	2.1	2.5	40	20	8	605	40	0.66
			2	100	20	100						20	10			20	0.33
mm	Units			mW	mA	mA	V	°C		V		mA	μA	V	nm	mA	mA/°C

Characteristics by Shape (25/50 mm TYPE)

Ta=25°C

Case Size (WXH)	Shape	Part No. Anode Common	Emitted Color	❖	Luminous Intensity Iv Rank B MIN.	Rank B TYP.	Rank C MIN.	Rank C TYP.	IF	fig.
22.8 X 33		AAR101	Red	1	6	12	12	15	20	20
				2	12	24	24	30		
		AAA101	Orange	1	2	4	—	—	20	
				2	4	8	—	—		
40 X 74		AAR121	Red		4	6	—	—	40❖	21
		AAA121	Orange		2	3	—	—	40❖	
mm	Units				mcd				mA	

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

Package Dimensions

unit : mm

Tolerance : ±0.25mm

fig.20

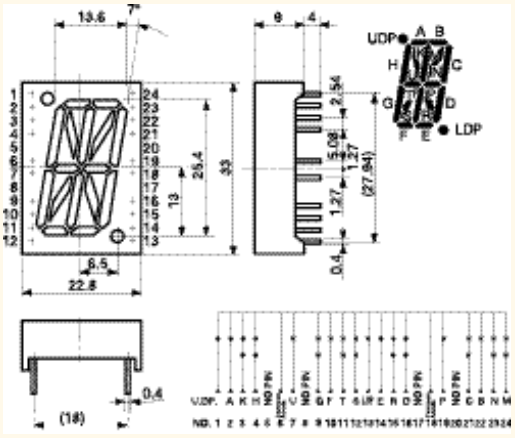
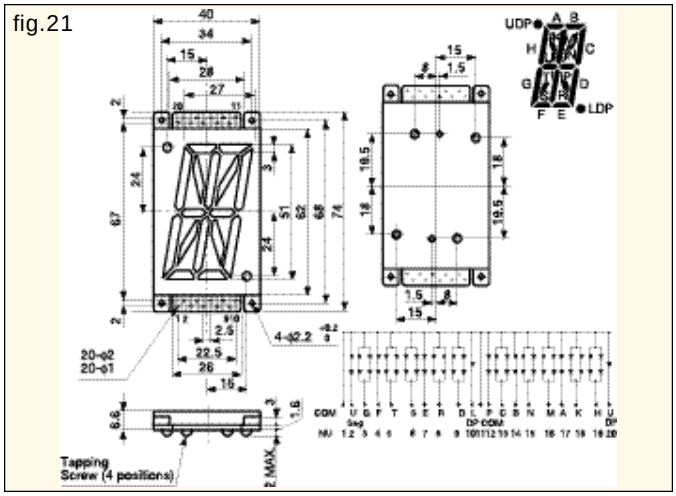
fig.21