■ SUPER BRIGHT LED NUMERIC DISPLAY

101 / 103 Series

Square Shape Type 25mm

■ Absolute Maximum Ratings

Ta = 25°C

		Red	Green	Orange	Unit
		NAR / NKR	NAG / NKG	NAA / NKA	
Power Dissipation	Pb	120	126	126	mW
Forward Current	I_F	30	25	25	mA
Peak Forward Current	I_{FM}	120	100	100	mA
Reverse Voltage	V_R	8	8	8	V
Operating Temp.	Topr	-20~+85	-20~+85	-20~+85	°C
Storage Temp.	Tstg	-20~+85	-20~+85	-20~+85	°C
Derating *	ΔI_F	0.41	0.34	0.34	mA/°C

* The current derating for operation applies when temperature is above 25°C.
• I_{FM} Condition : tw ≦ 1msec, Duty ≦ 1/20

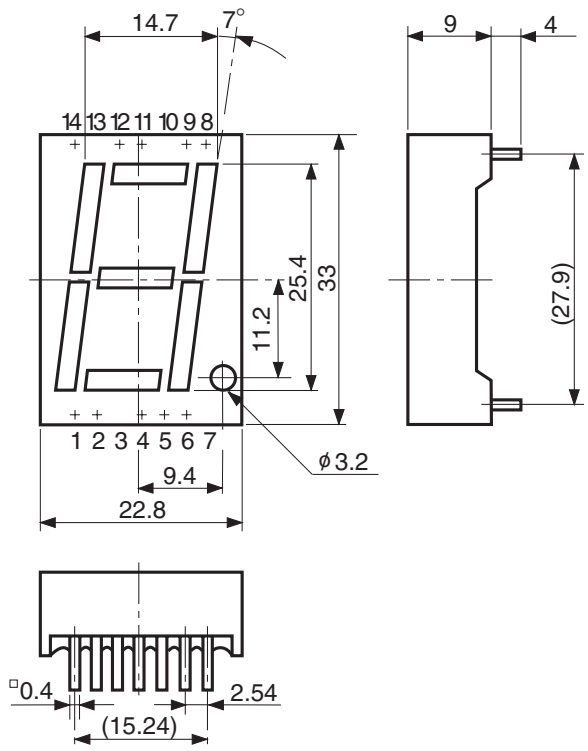
■ Electro-Optical Characteristics

Ta = 25°C

Part No.		Case Color	Chip		Lumminous Intensity I_V					Wanelength		Forward Voltage			Reverse Current	
					Rank B		Rank C			λ_p		V_F			I_R	
Anode Common	Cathode Common		Material	Emitted Color	MIN	TYP	MIN	TYP	I_F	TYP	I_F	TYP	MAX	I_F	MAX	V_R
NAR101	**NKR101**	Black	GaAlAs	Red	10	20	20	25	20	660	20	3.4	4.0	20	100	4
NAR103	**NKR103**	Gray														
NAG101P	**NKG101P**	Black	GaP	Green	4	8	—	—	20	565	20	4.4	5.0	20	100	4
NAG103P	**NKG103P**	Gray														
NAA101	**NKA101**	Black	GaAsP	Orange	8	16	—	—	20	605	20	4.4	5.0	20	100	4
NAA103	**NKA103**	Gray														
Units					mcd	mcd	mcd	mcd	mA	nm	mA	V	V	mA	μA	V

■ Package Dimensions

Unit : mm



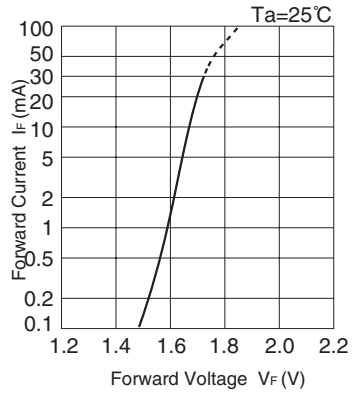
1. Cathode e
2. Cathode d
3. No Pin
4. Common Anode
5. Cathode c
6. Cathode DP
7. No Pin
8. Cathode b
9. Cathode a
10. No Pin
11. Common Anode
12. Cathode f
13. No Pin
14. Cathode g

Tolerance : ± 0.25mm

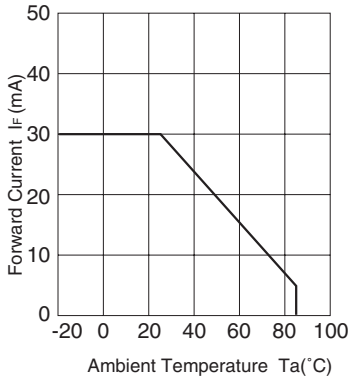
■ SUPER BRIGHT LED NUMERIC DISPLAY

NAR / NKR 101 / 103

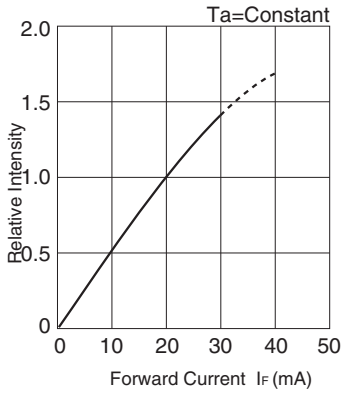
■ Forward Voltage vs. Forward Current



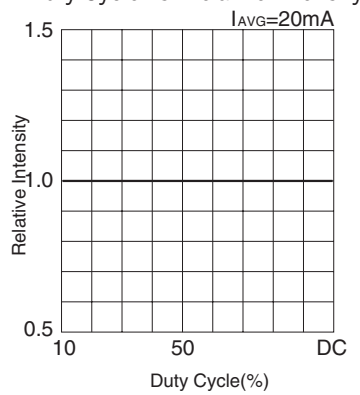
■ Ambient Temperature vs. Maximum Forward Current



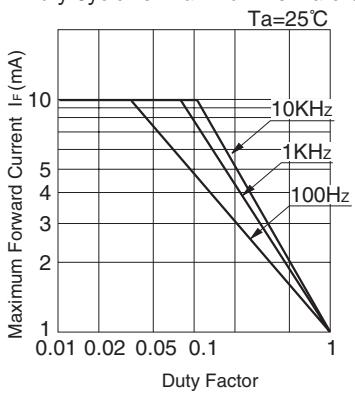
■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



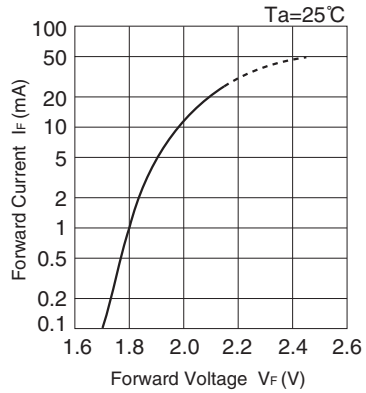
■ Duty Cycle vs. Maximum Forward Current



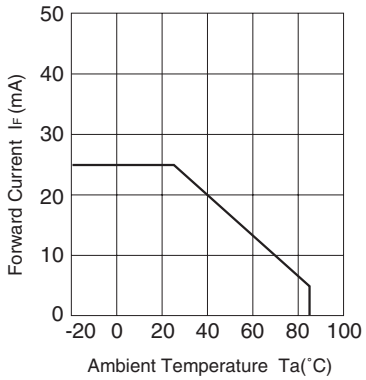
■ SUPER BRIGHT LED NUMERIC DISPLAY

NAG / NKG 101 / 103

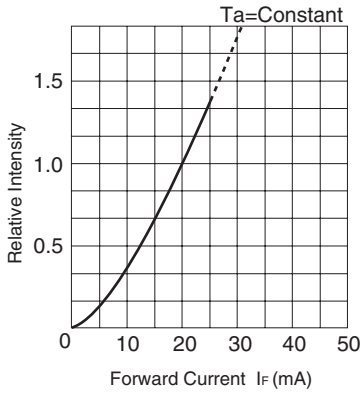
■ Forward Voltage vs. Forward Current



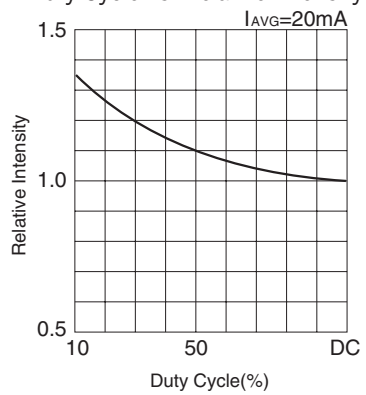
■ Ambient Temperature vs. Maximum Forward Current



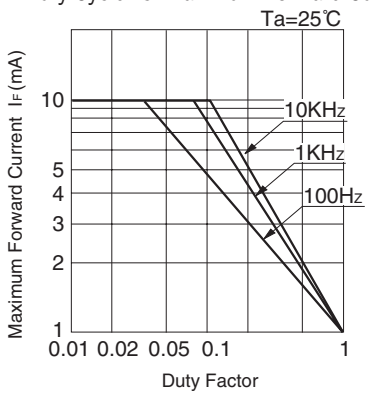
■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



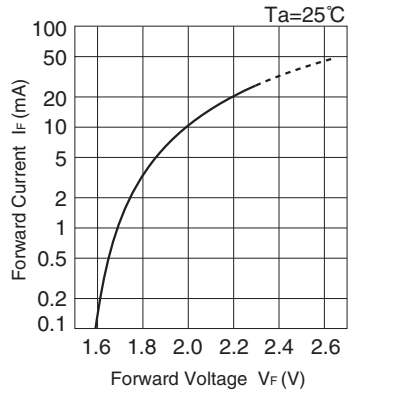
■ Duty Cycle vs. Maximum Forward Current



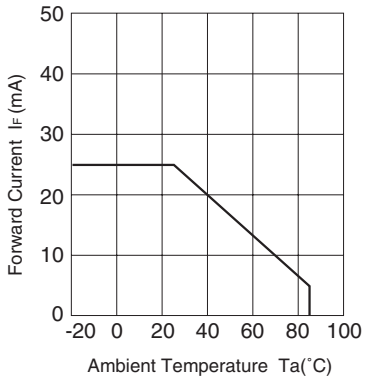
■ SUPER BRIGHT LED NUMERIC DISPLAY

NAA / NKA 101 / 103

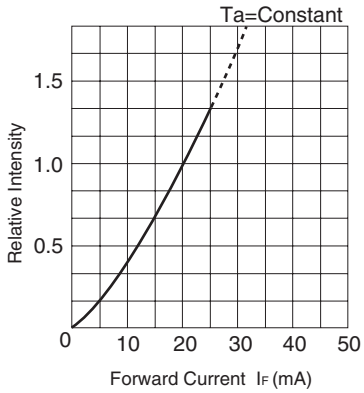
■ Forward Voltage vs. Forward Current



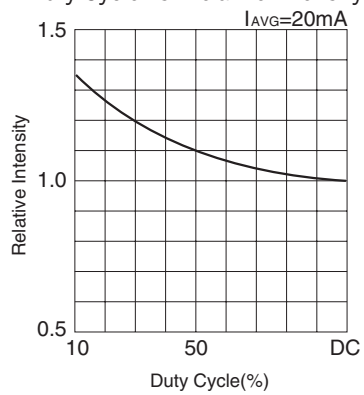
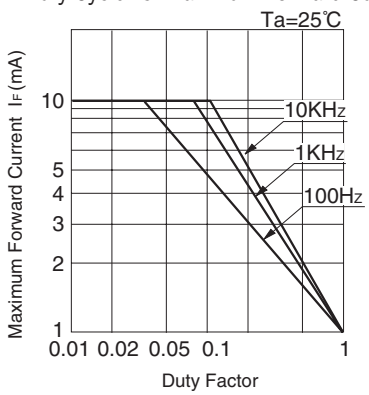
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current