■ SUPER BRIGHT LED NUMERIC DISPLAY

131 / 133 Series

Arrow Feather Type 7.5mm

■ Absolute Maximum Ratings

Ta = 25°C

		Red	Green	Orange	Unit
		NAR / NKR	NAG / NKG	NAA / NKA	
Power Dissipation	Pb	37.5	48	48	mW
Forward Current	I_F	15	20	20	mA
Peak Forward Current	I_{FM}	60	80	80	mA
Reverse Voltage	V_R	4	4	4	V
Operating Temp.	Topr	-30~+85	-30~+85	-30~+85	°C
Storage Temp.	Tstg	-30~+85	-30~+85	-30~+85	°C
Derating *	ΔI_F	0.25	0.33	0.33	mA/°C

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

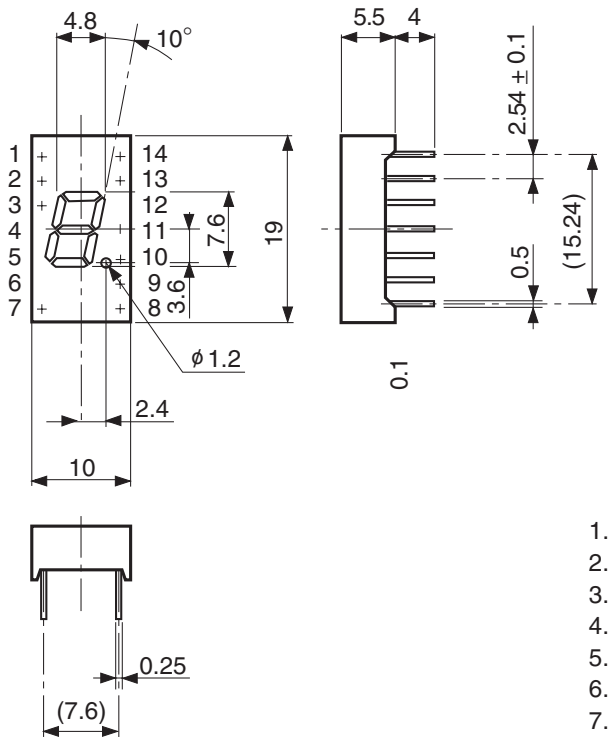
■ Electro-Optical Characteristics

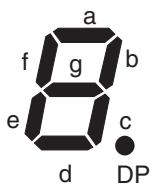
Ta = 25°C

Part No.		Case Color	Chip		Lumminous Intensity I_V					Wanelength		Forward Voltage			Reverse Current	
					Rank B		Rank C			λp		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
NAR131	**NKR131**	Black	GaAlAs	Red	0.3	0.6	—	—	10	700	10	2.0	2.5	10	100	4
NAR133	**NKR133**	Gray														
NAG131P	**NKG131P**	Black	GaP	Green	0.6	1.2	—	—	10	565	10	2.0	2.4	20	100	4
NAG133P	**NKG133P**	Gray														
NAA131	**NKA131**	Black	GaAsP	Orange	0.8	1.6	—	—	10	605	10	2.0	2.4	10	100	4
NAA133	**NKA133**	Gray														
Units					mcd	mcd	mcd	mcd	mA	nm	mA	V	V	mA	μA	V

■ Package Dimensions

Unit : mm





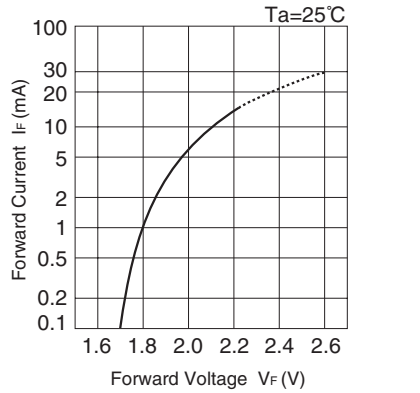
1. Cathode a
2. Cathode f
3. Common Anode
4. No Pin
5. No Pin
6. No Pin
7. Cathode e
8. Cathode d
9. Cathode DP
10. Cathode c
11. Cathode g
12. No Pin
13. Cathode b
14. Common Anode

Tolerance : ± 0.25mm

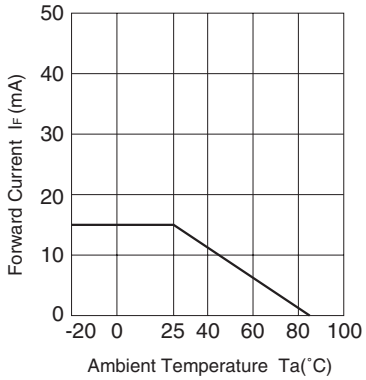
■ SUPER BRIGHT LED NUMERIC DISPLAY

NAR / NKR 131 / 133

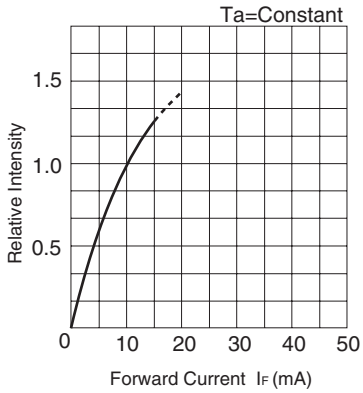
■ Forward Voltage vs. Forward Current



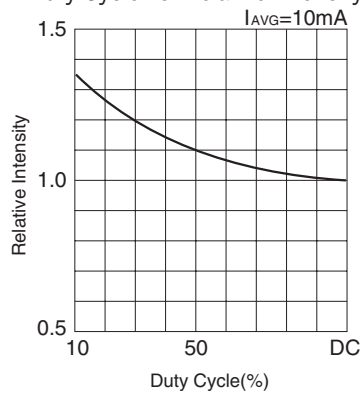
■ Ambient Temperature vs. Maximum Forward Current



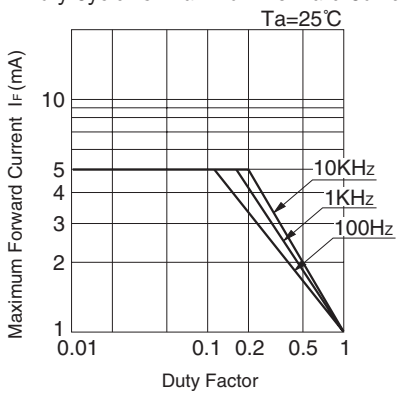
■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



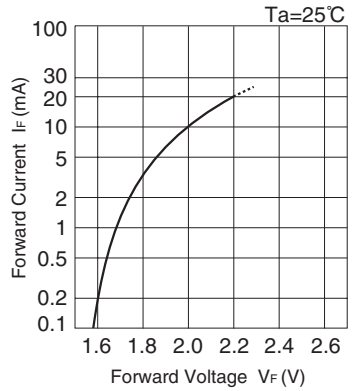
■ Duty Cycle vs. Maximum Forward Current



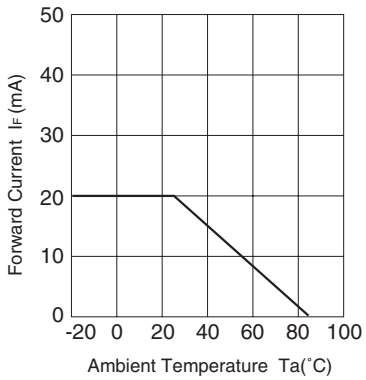
■ SUPER BRIGHT LED NUMERIC DISPLAY

NAG / NKG 131 / 133

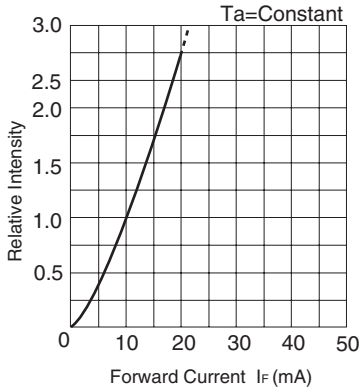
■ Forward Voltage vs. Forward Current



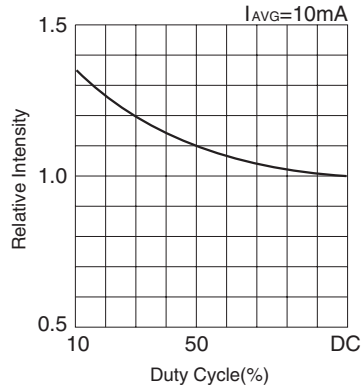
■ Ambient Temperature vs. Maximum Forward Current



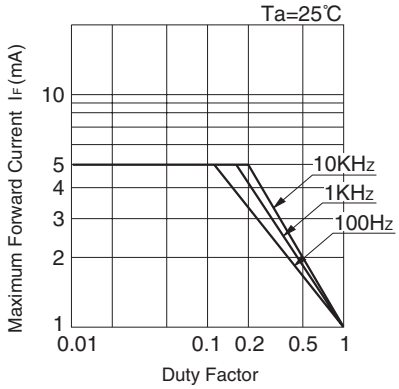
■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



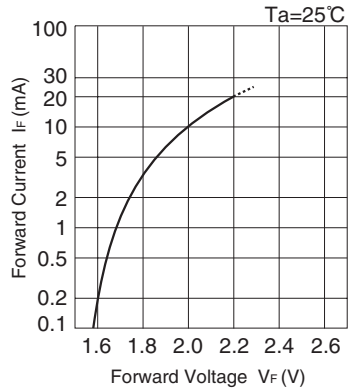
■ Duty Cycle vs. Maximum Forward Current



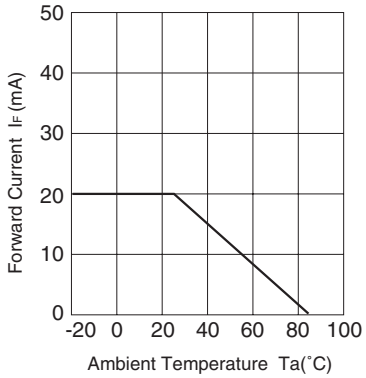
■ SUPER BRIGHT LED NUMERIC DISPLAY

NAA / NKA 131 / 133

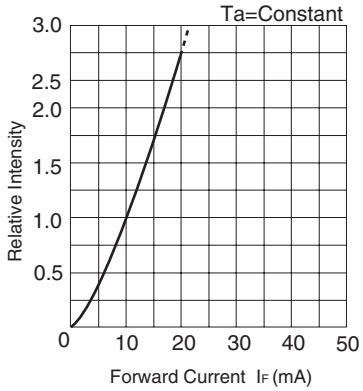
■ Forward Voltage vs. Forward Current



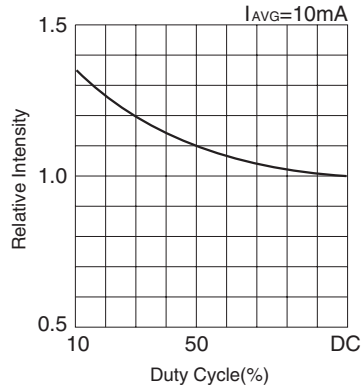
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current