



■ 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	IF	30	25	25	mA
Peak Forward Current	IFM	120	100	100	mA
Reverse Voltage	VR	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 *	ΔIF	0.41	0.34	0.34	mA/°C

* The current derating for operation applies when temperature is above 25°C.

• IFM Condition : tw ≤ 1msec, Duty ≤ 1/20

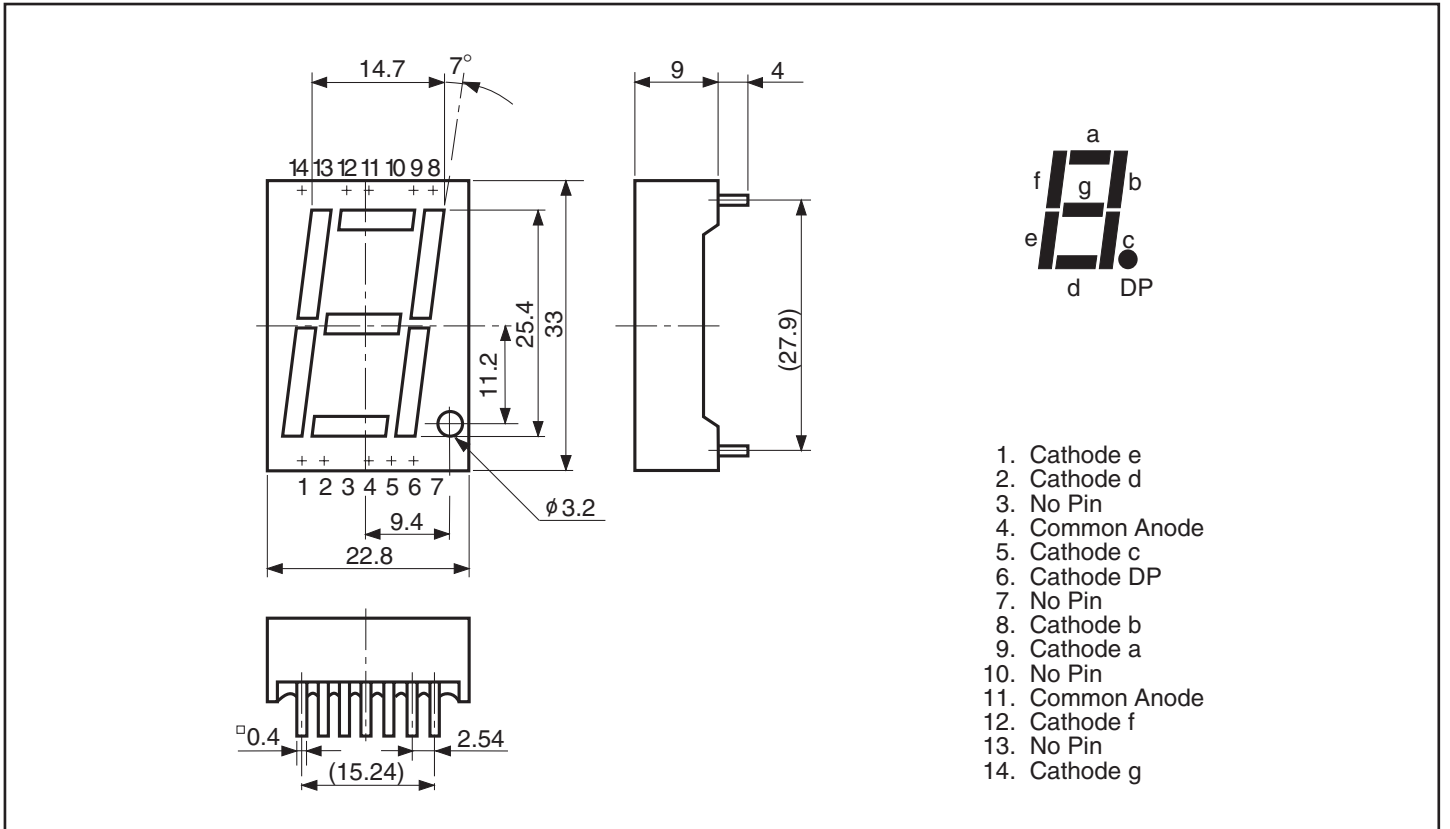
■ Electro-Optical Characteristics

Ta = 25°C

Part No.		Case Color	Chip		Luminous Intensity Iv					Wavelength λp		Forward Voltage VF			Reverse Current IR	
Anode Common	Cathode Common		Material	Emitted Color	Rank B		Rank C		IF	TYP	IF	TYP	MAX	IF	MAX	VR
NAR101	NKR101	Black	GaAlAs	Red	10	20	20	25	20	660	20	3.4	4.0	20	100	4
NAR103	NKR103	Gray			MIN	TYP	MIN	TYP	IF	TYP	IF	TYP	MAX	IF	MAX	VR
NAG101P	NKG101P	Black	GaP	Green	4	8	—	—	20	565	20	4.4	5.0	20	100	4
NAG103P	NKG103P	Gray			MIN	TYP	MIN	TYP	IF	TYP	IF	TYP	MAX	IF	MAX	VR
NAA101	NKA101	Black	GaAsP	Orange	8	16	—	—	20	605	20	4.4	5.0	20	100	4
NAA103	NKA103	Gray			MIN	TYP	MIN	TYP	IF	TYP	IF	TYP	MAX	IF	MAX	VR
Units					mcd	mcd	mcd	mcd	mA	nm	mA	V	V	mA	μA	V

■ Package Dimensions

Unit : mm



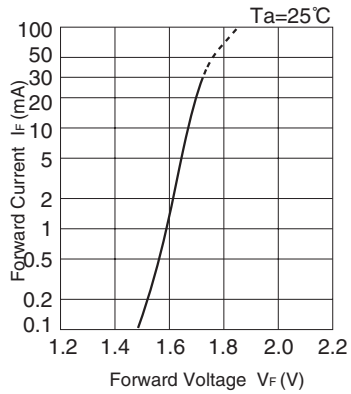
Tolerance : ± 0.25mm



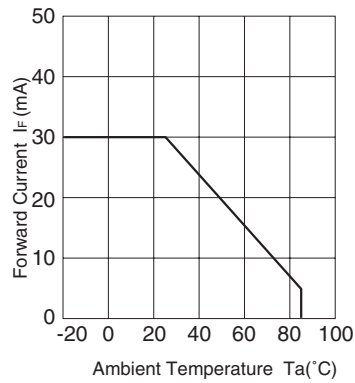
■ SUPER BRIGHT LED NUMERIC DISPLAY

NAR / NKR 101 / 103

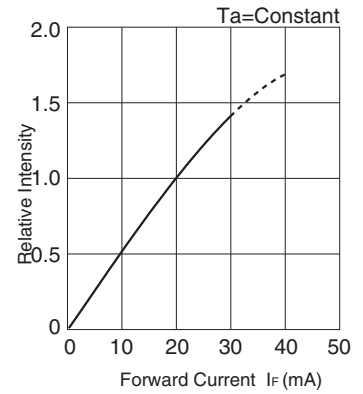
■ Forward Voltage vs. Forward Current



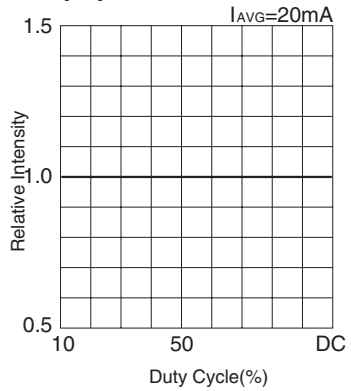
■ Ambient Temperature vs. Maximum Forward Current



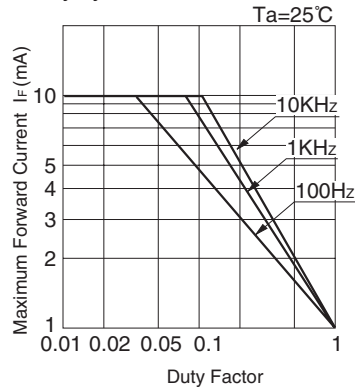
■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current

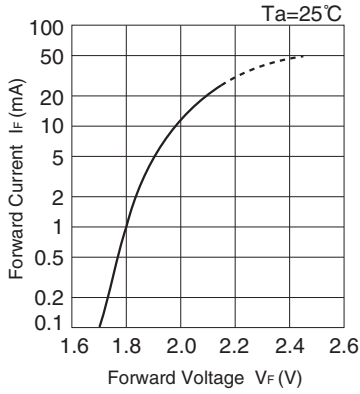




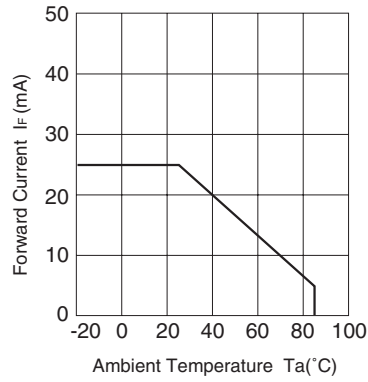
■ SUPER BRIGHT LED NUMERIC DISPLAY

NAG / NKG 101 / 103

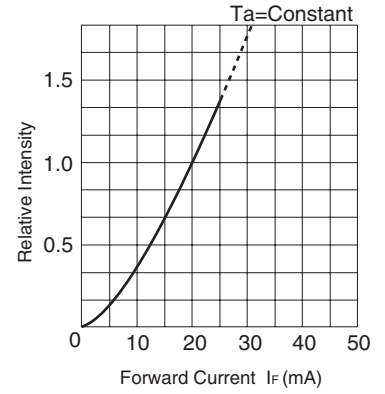
■ Forward Voltage vs. Forward Current



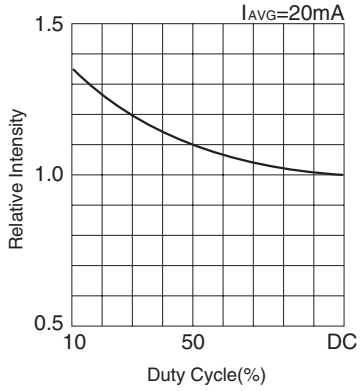
■ Ambient Temperature vs. Maximum Forward Current



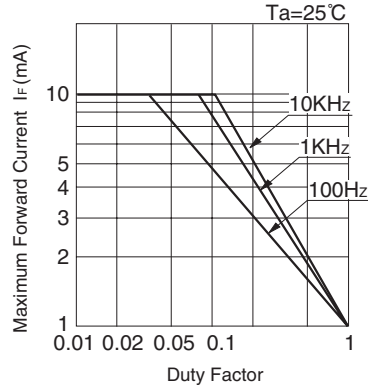
■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current

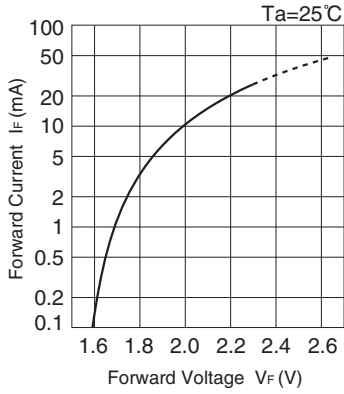




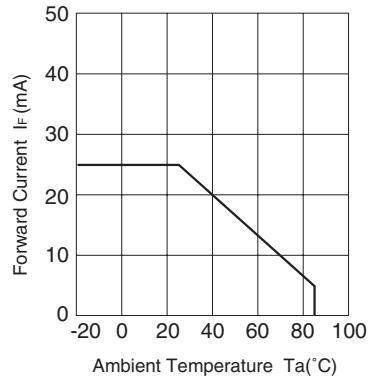
■ SUPER BRIGHT LED NUMERIC DISPLAY

NAA / NKA 101 / 103

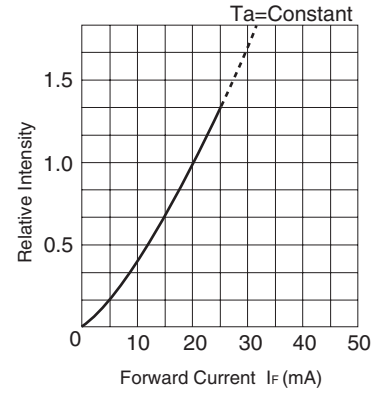
■ Forward Voltage vs. Forward Current



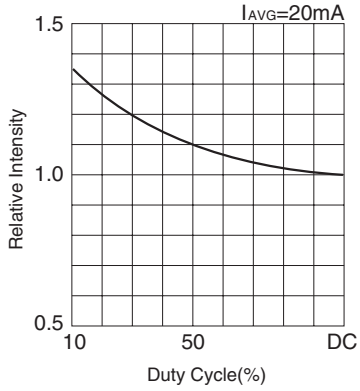
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current

