



■ 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

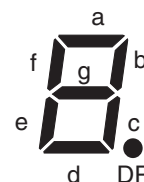
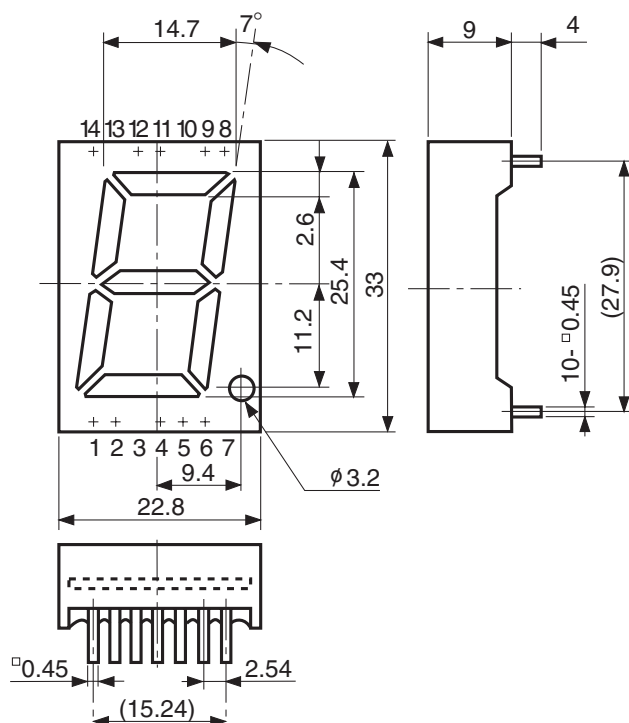
■ Electro-Optical Characteristics

Ta = 25°C

Part No.		Case Color	Chip		Lumminous Intensity Iv					Wavelength λ p		Forward Voltage VF			Reverse Current IR	
Anode Common	Cathode Common				Rank B		Rank C			IF	TYP	IF	TYP	MAX	IF	MAX
			Material	Emitted Color	MIN	TYP	MIN	TYP	MIN							
NAR105	NKR105	Black	GaAlAs	Red	10	20	20	25	20	660	20	3.4	4.0	20	100	8
NAR107	NKR107	Gray														
NAG105P	NKG105P	Black	GaP	Green	4	8	—	—	20	565	20	4.4	5.0	20	100	8
NAG107P	NKG107P	Gray														
NAA105	NKA105	Black	GaAsP	Orange	8	16	—	—	20	605	20	4.4	5.0	20	100	8
NAA107	NKA107	Gray														
Units					mcd	mcd	mcd	mcd	mA	nm	mA	V	V	mA	μA	V

■ Package Dimensions

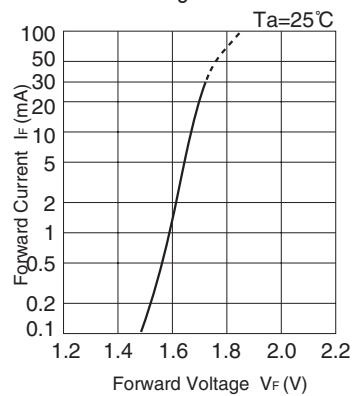
Unit : mm



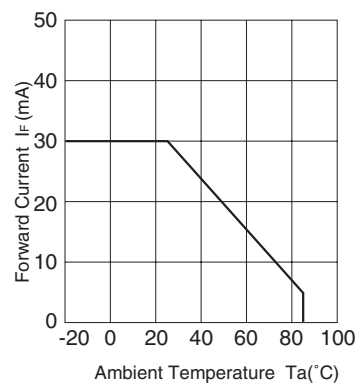
1. Cathode e
2. Cathode d
3. No Pin
4. Common Anode
5. Cathode c
6. Cathode DP
7. No Pin
8. Cathode b
9. Cathode a
10. No Pin
11. Common Anode
12. Cathode f
13. No Pin
14. Cathode g

Tolerance : ± 0.25mm

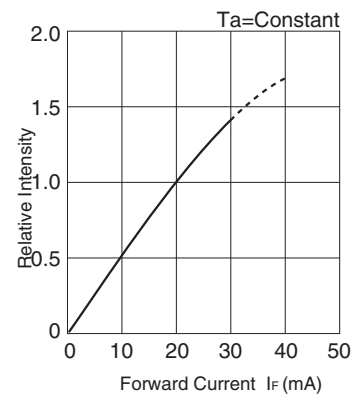
■ Forward Voltage vs. Forward Current



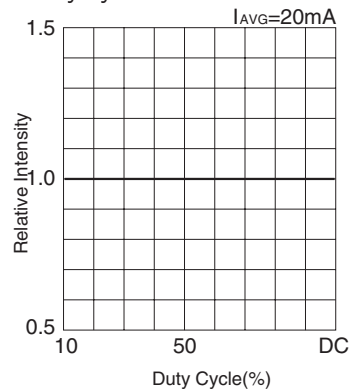
■ Ambient Temperature vs. Maximum Forward Current



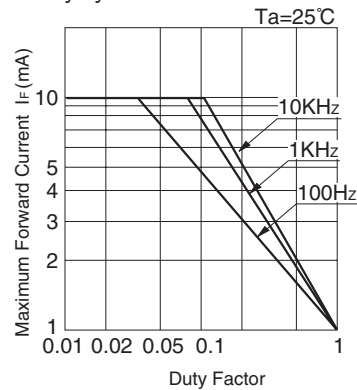
■ Forward Current vs. Relative Intensity



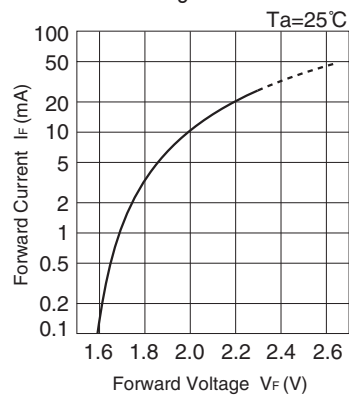
■ Duty Cycle vs. Relative Intensity



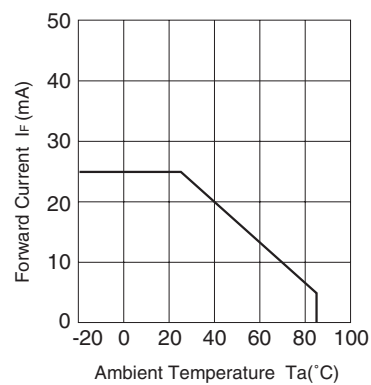
■ Duty Cycle vs. Maximum Forward Current



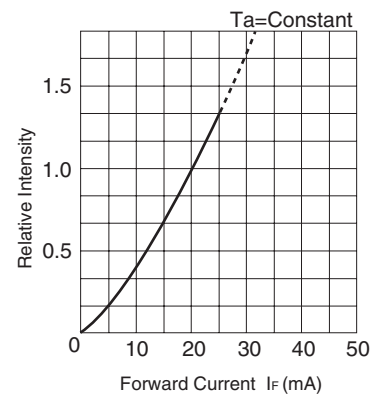
■ Forward Voltage vs. Forward Current



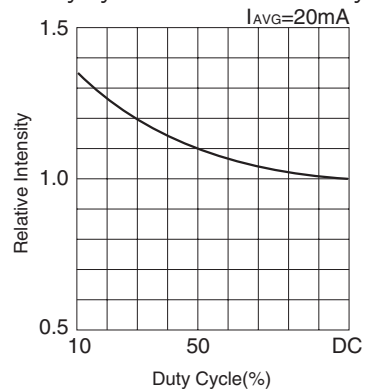
■ Ambient Temperature vs. Maximum Forward Current



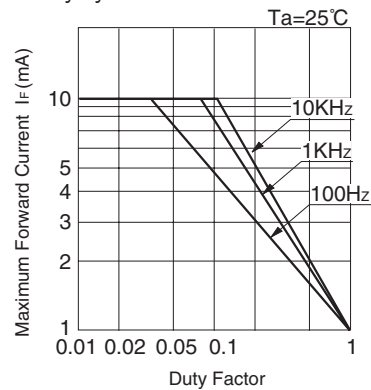
■ Forward Current vs. Relative Intensity



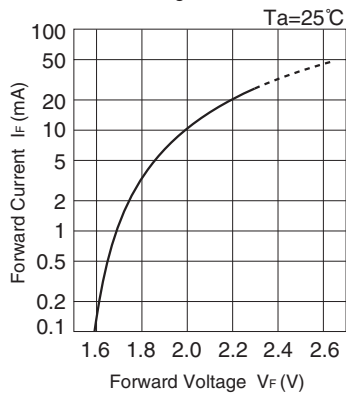
■ Duty Cycle vs. Relative Intensity



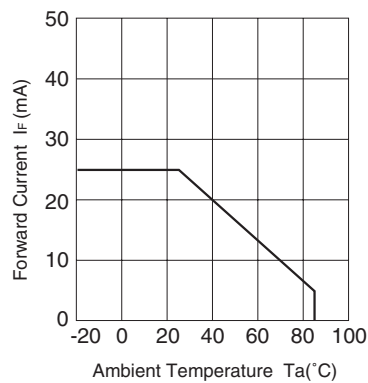
■ Duty Cycle vs. Maximum Forward Current



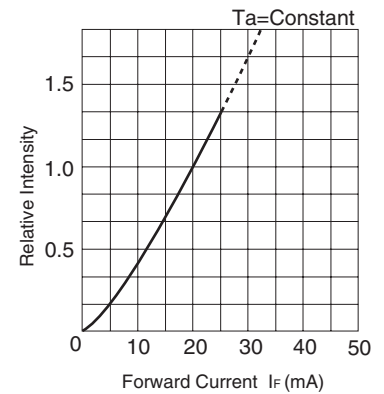
■ Forward Voltage vs. Forward Current



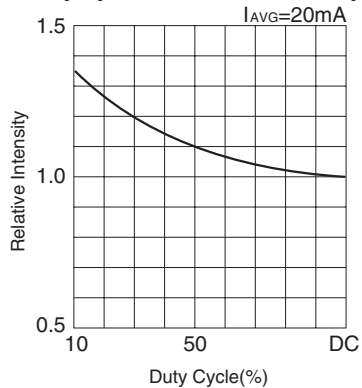
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current

