



■ 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

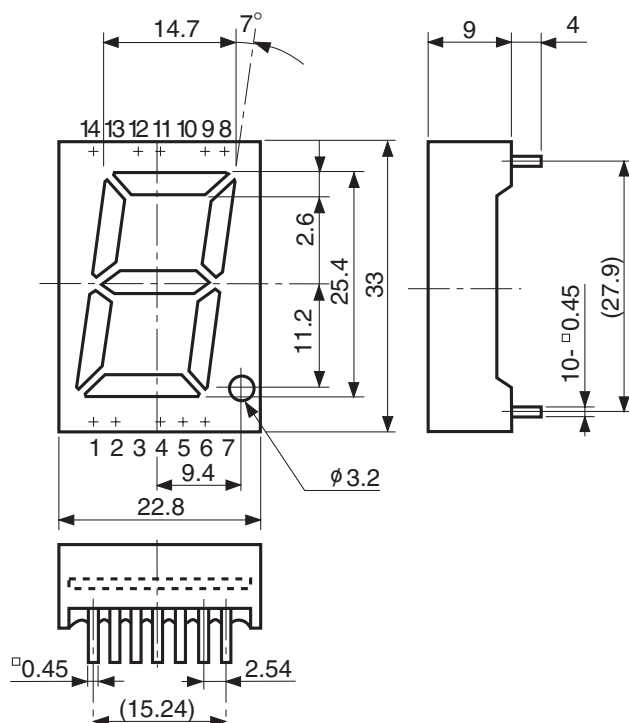
■ Electro-Optical Characteristics

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	VR
			Material	Emitted Color	MIN	TYP	MIN	TYP	IF	TYP	IF	TYP	MAX	IF	MAX	VR
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

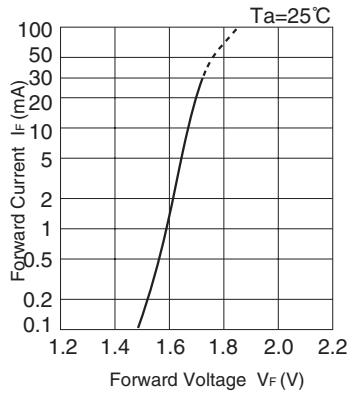
■ Package Dimensions

Unit : mm

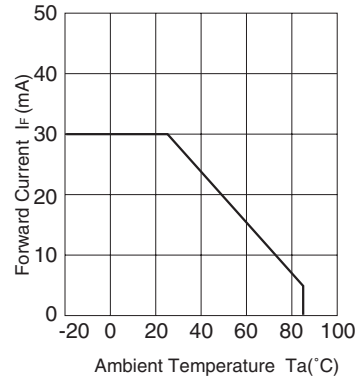


Tolerance : ± 0.25mm

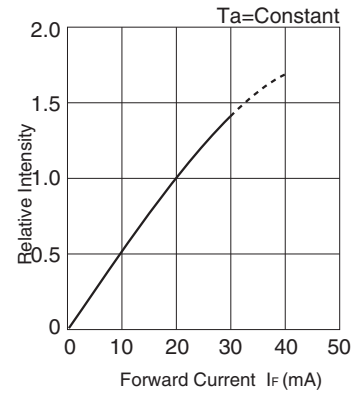
■ Forward Voltage vs. Forward Current



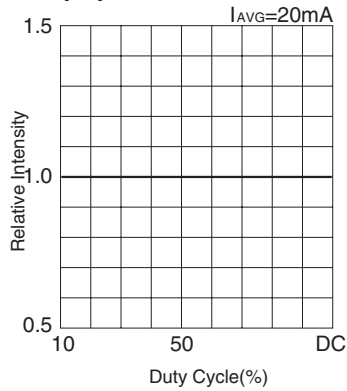
■ Ambient Temperature vs. Maximum Forward Current



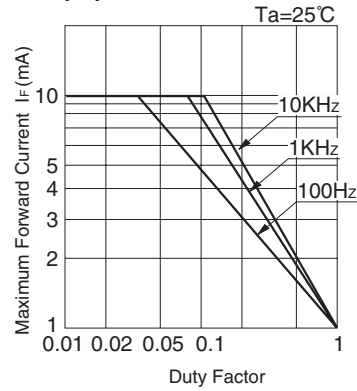
■ Forward Current vs. Relative Intensity



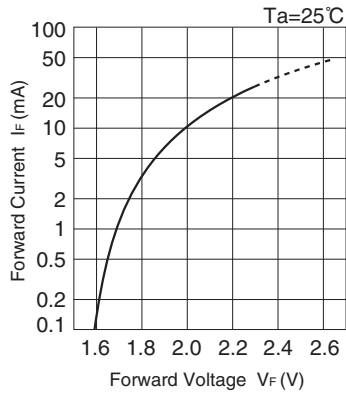
■ Duty Cycle vs. Relative Intensity



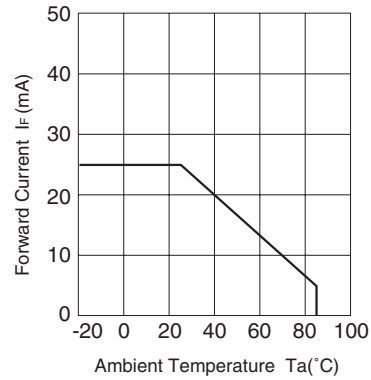
■ Duty Cycle vs. Maximum Forward Current



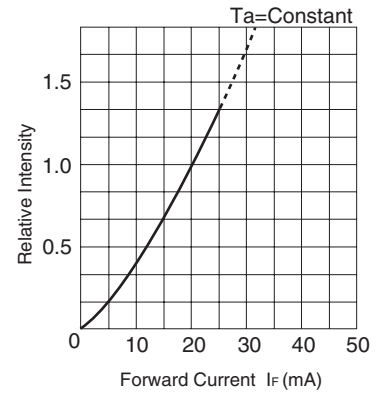
■ Forward Voltage vs. Forward Current



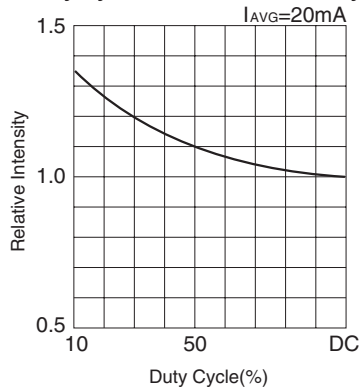
■ Ambient Temperature vs. Maximum Forward Current



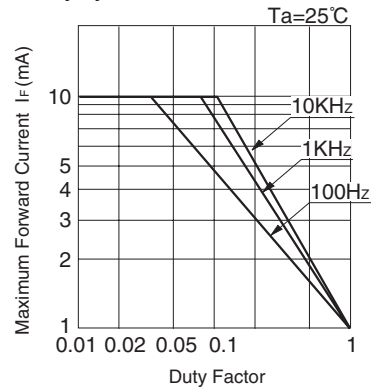
■ Forward Current vs. Relative Intensity



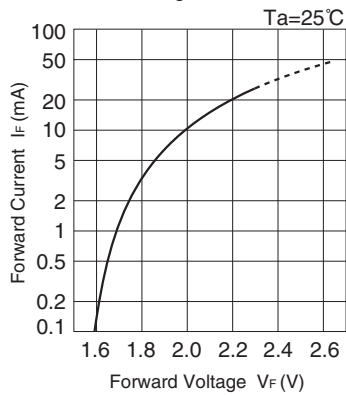
■ Duty Cycle vs. Relative Intensity



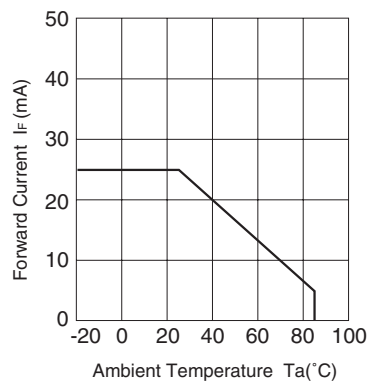
■ Duty Cycle vs. Maximum Forward Current



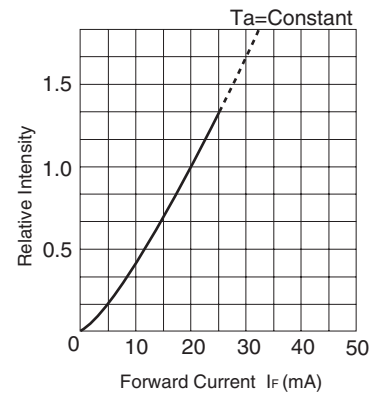
■ Forward Voltage vs. Forward Current



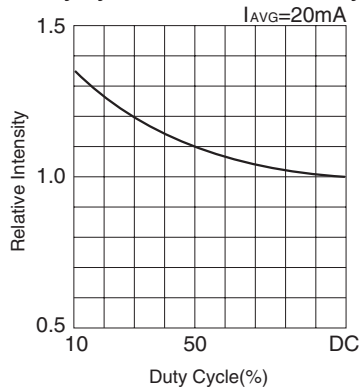
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current

