■ SUPER BRIGHT LED NUMERIC DISPLAY

NS□101 / NS□103 Series

Square Shape Type 15mm

■ Absolute Maximum Ratings

Ta = 25°C

		Red	Green	Orange	Unit
		NSR	NSG	NSA	
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

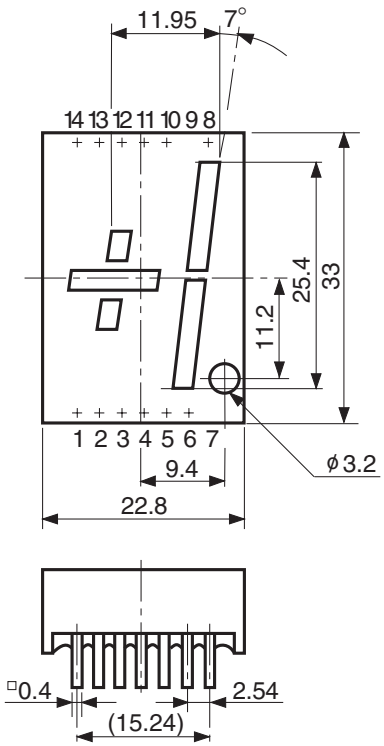
■ Electro-Optical Characteristics

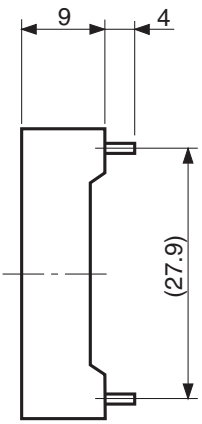
Ta = 25°C

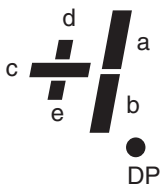
Part No.		Case Color	Chip		Lumminous Intensity I_V					Wanelength		Forward Voltage			Reverse Current	
					Rank B		Rank C			λp		V_F			I_R	
Anode Common	Cathode Common		Material	Emitted Color	MIN	TYP	MIN	TYP	I_F	TYP	I_F	TYP	MAX	I_F	MAX	V_R
NSR101		Black	GaAlAs	Red	10	20	20	25	20	660	20	3.4	4.0	20	100	4
NSR103		Gray														
NSG101P		Black	GaP	Green	4	8	—	—	20	565	20	4.4	5.0	20	100	4
NSG103P		Gray														
NSA101		Black	GaAsP	Orange	8	16	—	—	20	605	20	4.4	5.0	20	100	4
NSA103		Gray														
Units					mcd	mcd	mcd	mcd	mA	nm	mA	V	V	mA	μA	V

■ Package Dimensions

Unit : mm







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

Tolerance : ± 0.25mm

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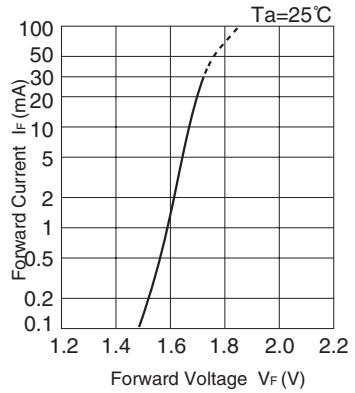
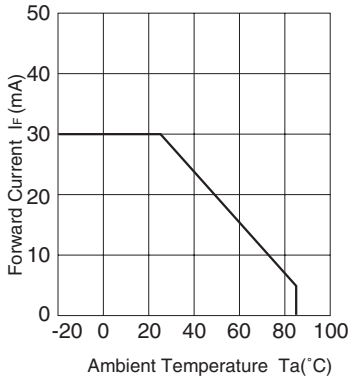
NSR101 / NSR103

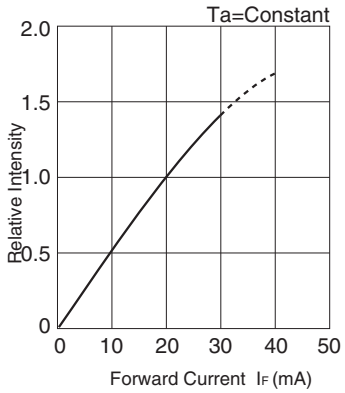
■ Forward Voltage vs. Forward Current



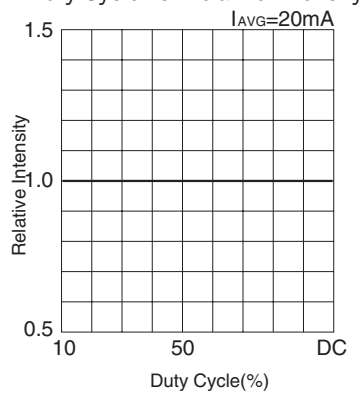
■ Ambient Temperature vs. Maximum Forward Current



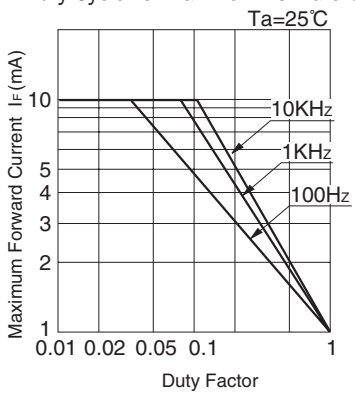
■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



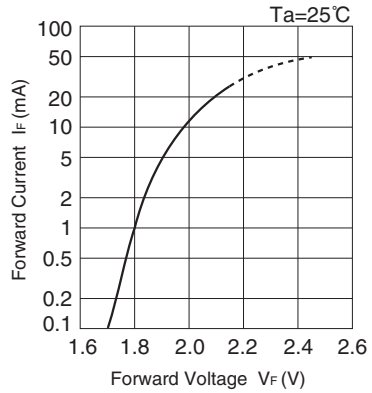
■ Duty Cycle vs. Maximum Forward Current



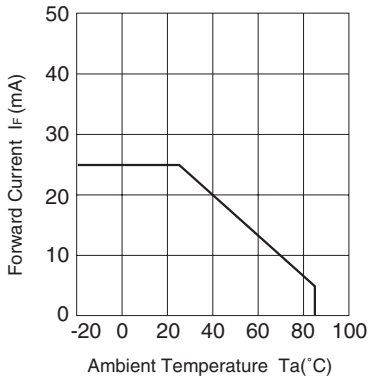
■ SUPER BRIGHT LED NUMERIC DISPLAY

NSG101 / NSG103

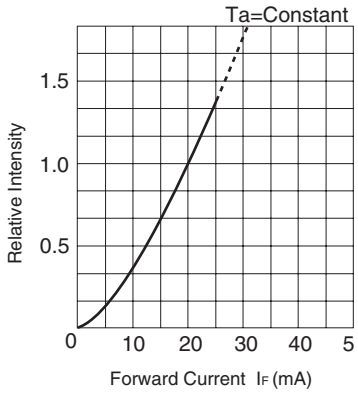
■ Forward Voltage vs. Forward Current



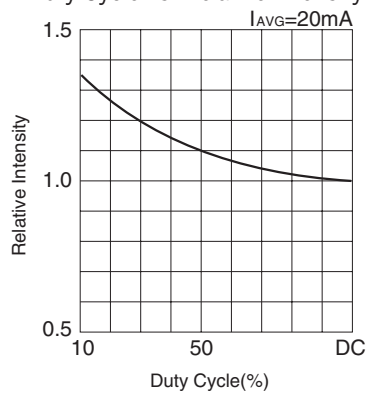
■ Ambient Temperature vs. Maximum Forward Current



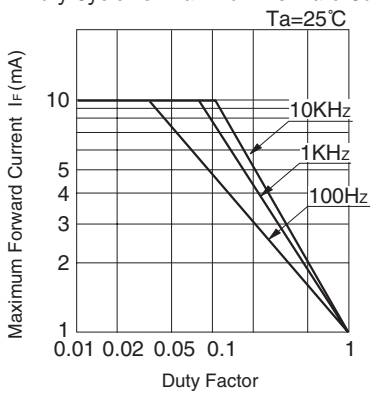
■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



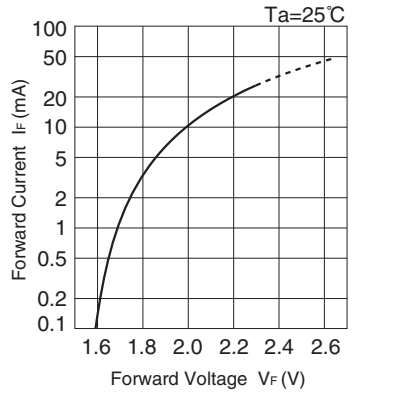
■ Duty Cycle vs. Maximum Forward Current



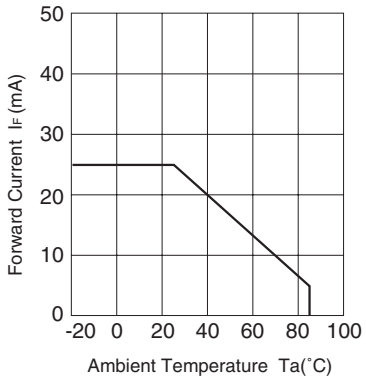
■ SUPER BRIGHT LED NUMERIC DISPLAY

NSA101 / NSA103

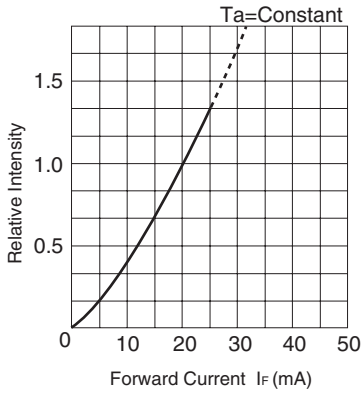
■ Forward Voltage vs. Forward Current



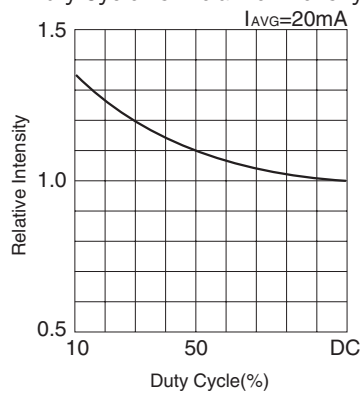
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current