



SUPER BRIGHT LED NUMERIC DISPLAY

NS□141 / NS□143 Series

Arrow Feather Type 10mm



Absolute Maximum Ratings

T_a = 25°C

		Red	Green	Orange	Unit
		NSR	NSG	NSA	
Power Dissipation	P _b	60	63	63	mW
Forward Current	I _F	30	25	25	mA
Peak Forward Current	I _{FM}	120	100	100	mA
Reverse Voltage	V _R	4	4	4	V
Operating Temp.	T _{opr}	-40~+85	-40~+85	-40~+85	°C
Storage Temp.	T _{stg}	-40~+85	-40~+85	-40~+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 : t_w ≤ 1msec, Duty ≤ 1/20

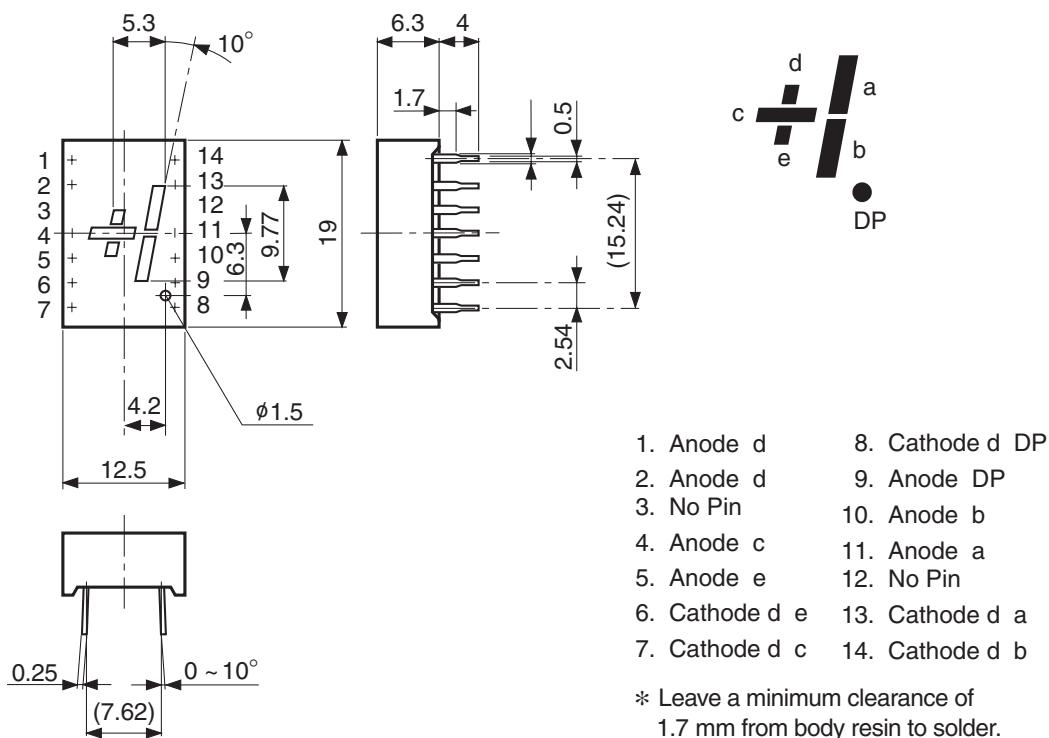
Electro-Optical Characteristics

T_a = 25°C

Part No.		Case Color	Chip		Luminous Intensity I _v					Wavelength		Forward Voltage			Reverse Current		
Anode Common	Cathode Common		Material	Emitted Color	Rank B		Rank C			λ _p TYP	I _F TYP	V _F TYP	MAX	I _F TYP	I _R MAX	V _R	
					MIN	TYP	MIN	TYP	I _F								
NSR141		Black	GaAlAs	Red	4	8	8	11	20	660	20	1.7	2.0	20	100	4	
NSR143		Gray															
NSG141P		Black	GaP	Green	1	2	—	—	20	565	20	2.2	2.5	20	100	4	
NSG143P		Gray															
NSA141		Black	GaAsP	Orange	3	6	—	—	20	605	20	2.2	2.5	20	100	4	
NSA143		Gray															
Units					mcd	mcd	mcd	mcd	mA	nm	mA	V	V	mA	μA	V	

Package Dimensions

Unit : mm



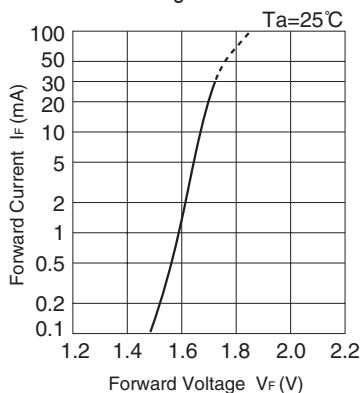
Tolerance : ± 0.25mm



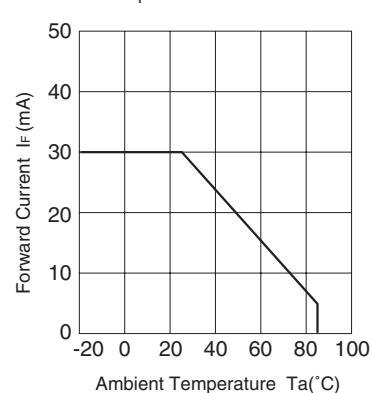
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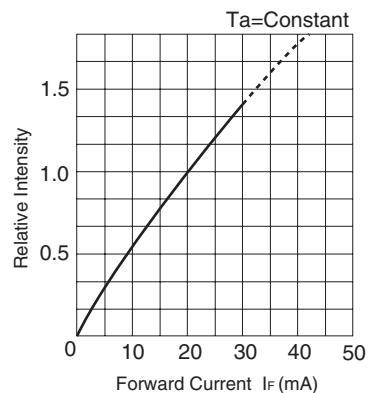
■ Forward Voltage vs. Forward Current



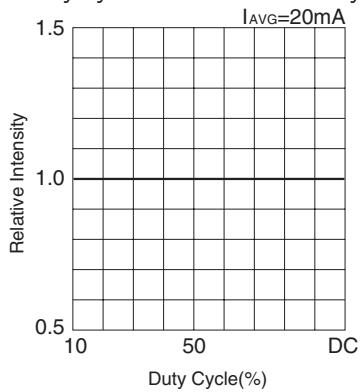
■ Ambient Temperature vs. Maximum Forward Current



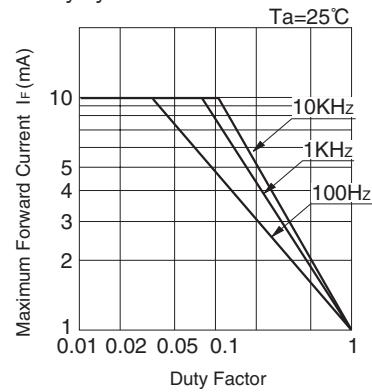
■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current

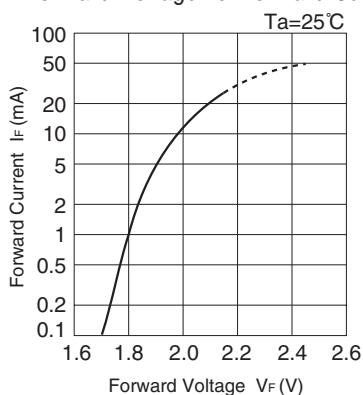




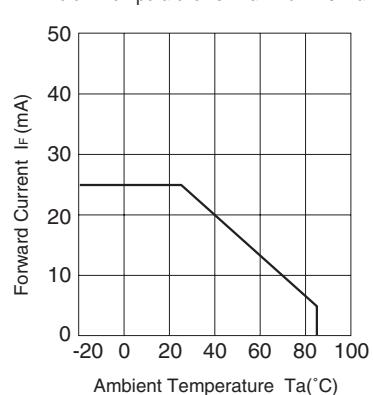
■ SUPER BRIGHT LED NUMERIC DISPLAY

NSG141 / NSG143

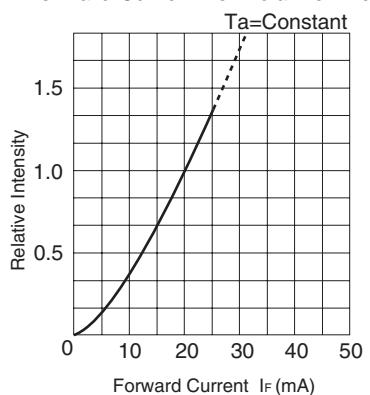
■ Forward Voltage vs. Forward Current



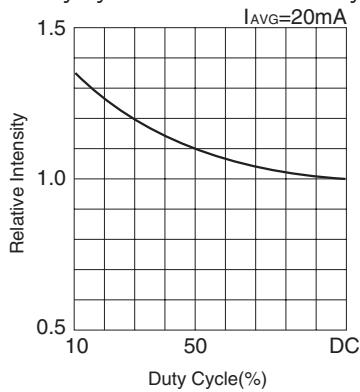
■ Ambient Temperature vs. Maximum Forward Current



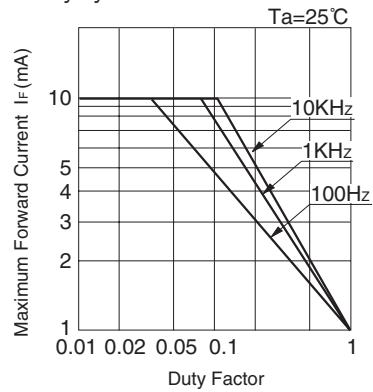
■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current

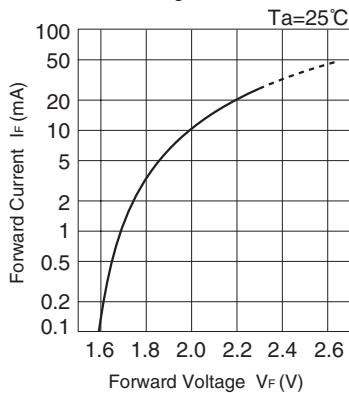




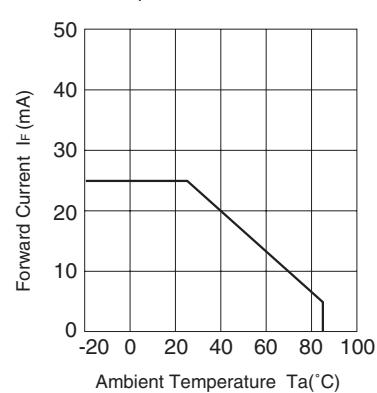
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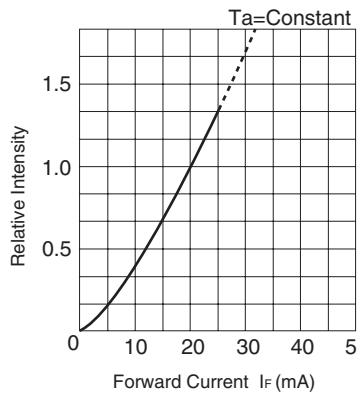
■ Forward Voltage vs. Forward Current



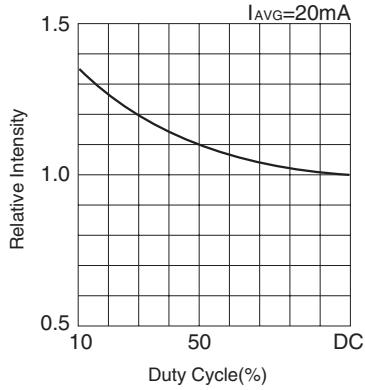
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current

