■ SUPER BRIGHT LED NUMERIC DISPLAY

NS□145 / NS□147 Series

Square Shape Type 10mm

■ Absolute Maximum Ratings

Ta = 25°C

		Red	Green	Orange	Unit
		NSR	NSG	NSA	
Power Dissipation	Pb	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.	Topr	-40~+85	-40~+85	-40~+85	°C
Storage Temp.	Tstg	-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 : tw ≦ 1msec, Duty ≦ 1/20

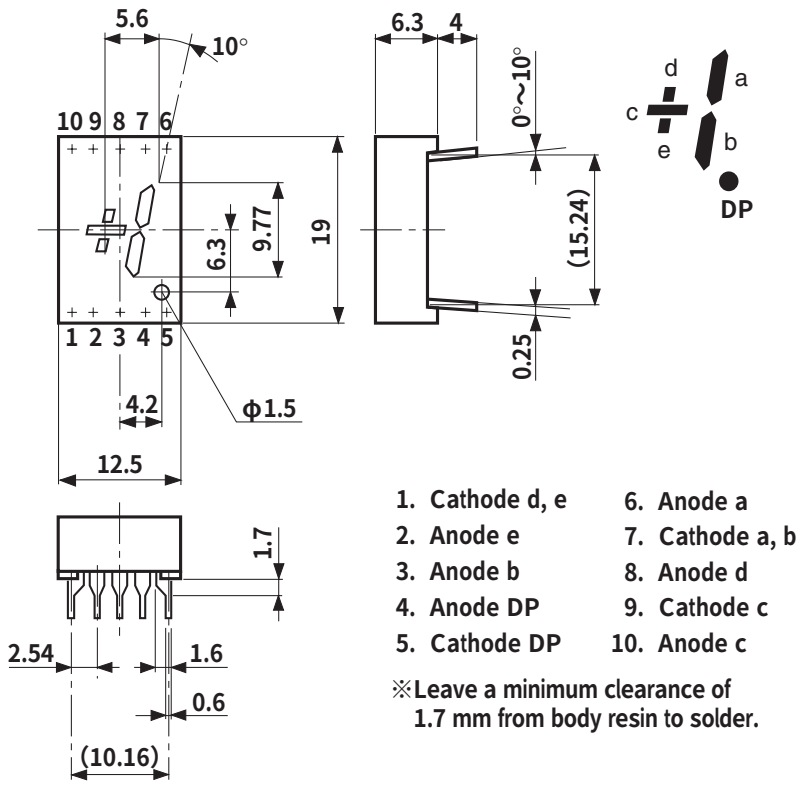
■ Electro-Optical Characteristics

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
NSR145		Black	GaAlAs	Red	3.2	6.4	6.4	8.8	20	660	20	1.7	20	20	100	4
NSR147		Gray														
NSG145P		Black	GaP	Green	0.8	1.6	—	—	20	565	20	2.2	2.5	20	100	4
NSG147P		Gray														
NSA145		Black	GaAsP	Orange	2.4	4.8	—	—	20	605	20	2.2	2.5	20	100	4
NSA147		Gray														
Units					mcd	mcd	mcd	mcd	mA	nm	mA	V	V	mA	μA	V

■ Package Dimensions

Unit : mm



1. Cathode d, e
2. Anode e
3. Anode b
4. Anode DP
5. Cathode DP
6. Anode a
7. Cathode a, b
8. Anode d
9. Cathode c
10. Anode c

※Leave a minimum clearance of 1.7 mm from body resin to solder.

Tolerance : ± 0.25mm

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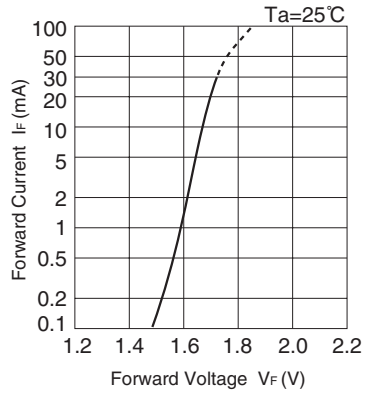
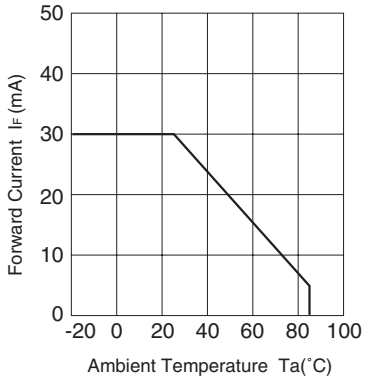
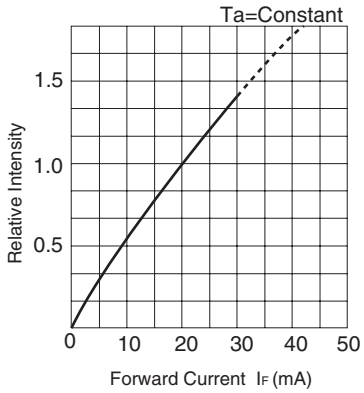
■ Forward Voltage vs. Forward Current



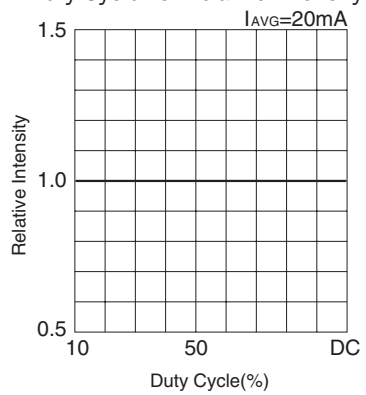
■ Ambient Temperature vs. Maximum Forward Current



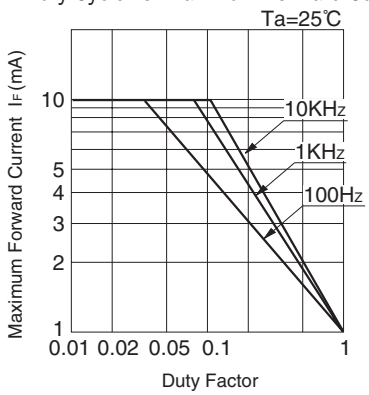
■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



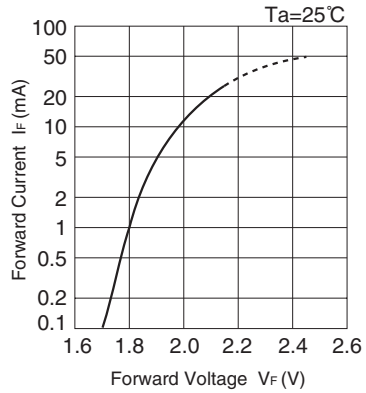
■ Duty Cycle vs. Maximum Forward Current



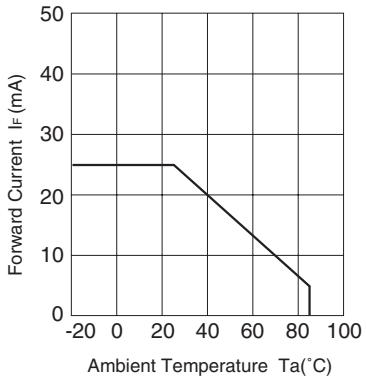
■ SUPER BRIGHT LED NUMERIC DISPLAY

NSG145 / NSG147 Series

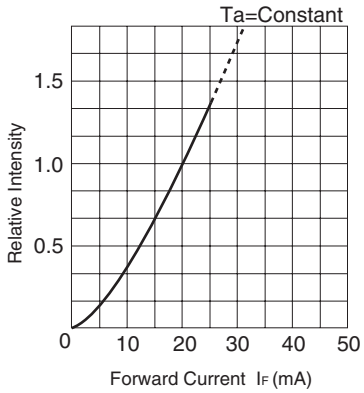
■ Forward Voltage vs. Forward Current



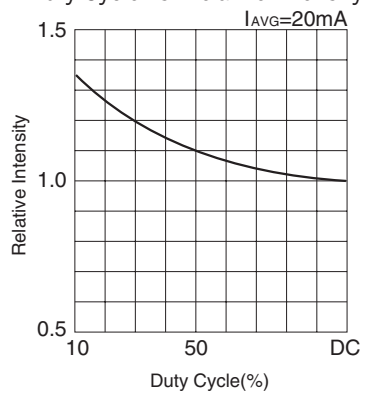
■ Ambient Temperature vs. Maximum Forward Current



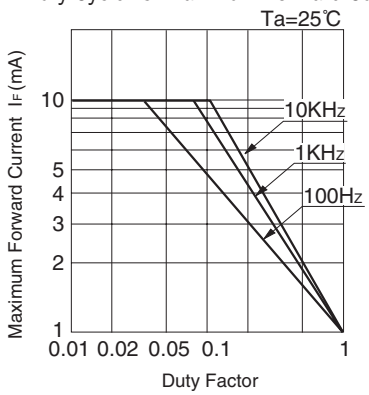
■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



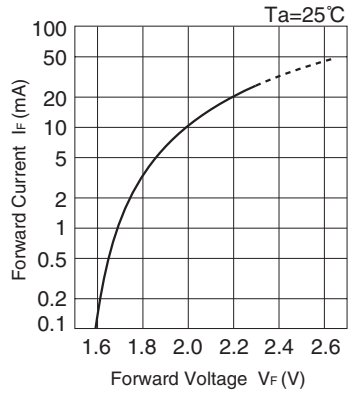
■ Duty Cycle vs. Maximum Forward Current



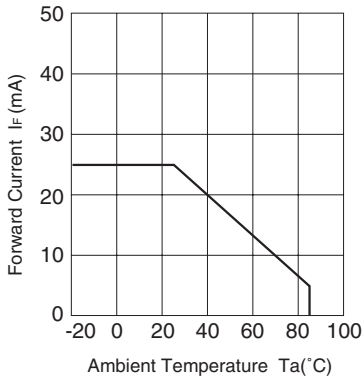
■ SUPER BRIGHT LED NUMERIC DISPLAY

NSA145 / NSA147 Series

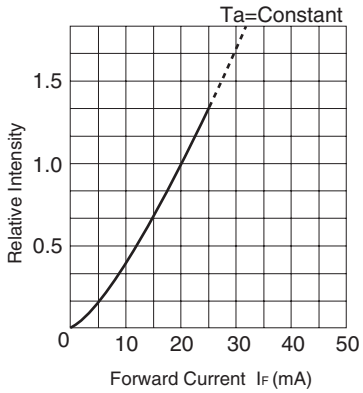
■ Forward Voltage vs. Forward Current



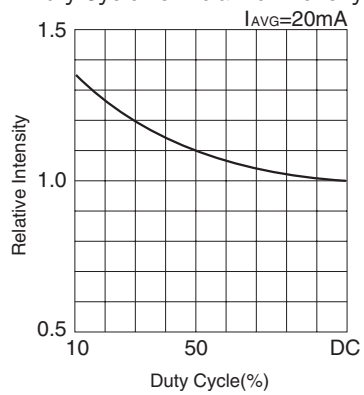
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current