



■ Absolute Maximum Ratings

Ta = 25°C

		Red	Green	Orange	Unit
		NSR	NSG	NSA	
Power Dissipation	Pb	60	63	63	mW
Forward Current	IF	30	25	25	mA
Peak Forward Current	IFM	120	100	100	mA
Reverse Voltage	VR	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 *	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

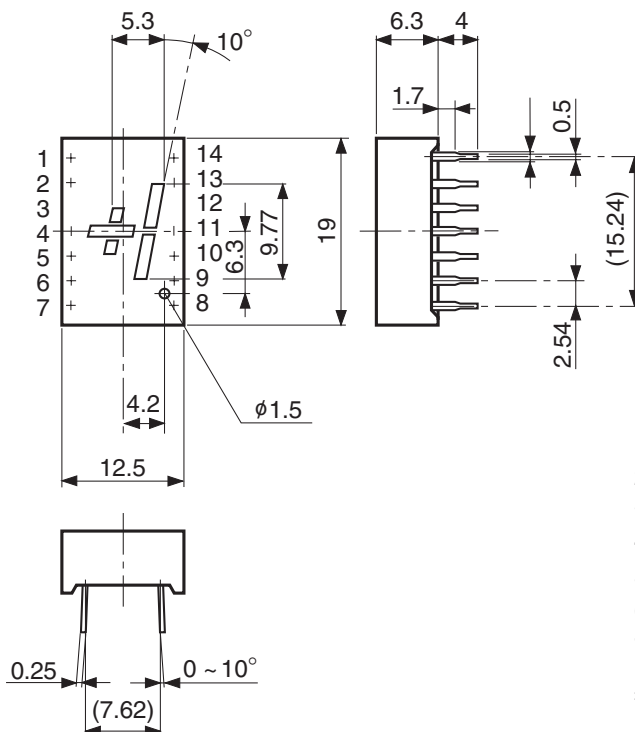
■ Electro-Optical Characteristics

Ta = 25°C

Part No.		Case Color	Chip		Luminous Intensity I _v					Wavelength		Forward Voltage			Reverse Current	
Anode Common	Cathode Common				Rank B		Rank C			λ _p	I _F	TYP	V _F	I _R		
			Material	Emitted Color	MIN	TYP	MIN	TYP	I _F						TYP	MAX
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

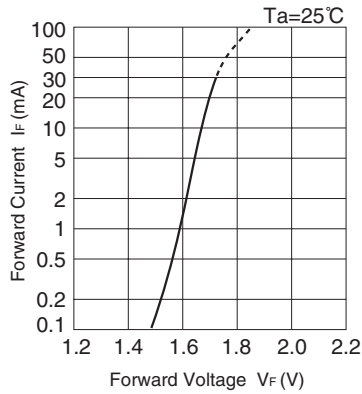


1. Anode d
2. Anode d
3. No Pin
4. Anode c
5. Anode e
6. Cathode d e
7. Cathode d c
8. Cathode d DP
9. Anode DP
10. Anode b
11. Anode a
12. No Pin
13. Cathode d a
14. Cathode d b

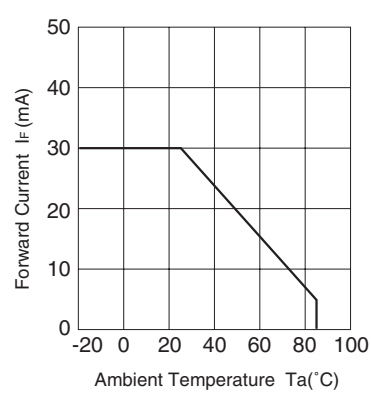
* Leave a minimum clearance of 1.7 mm from body resin to solder.

Tolerance : ± 0.25mm

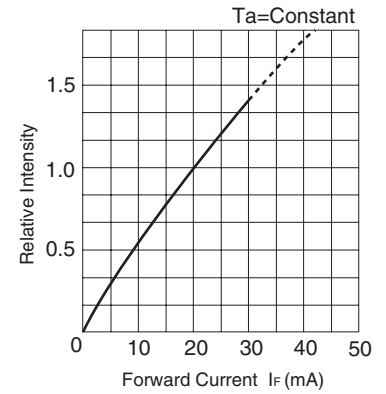
■ Forward Voltage vs. Forward Current



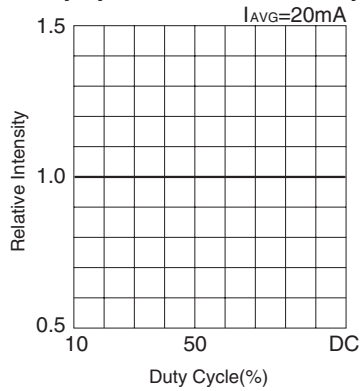
■ Ambient Temperature vs. Maximum Forward Current



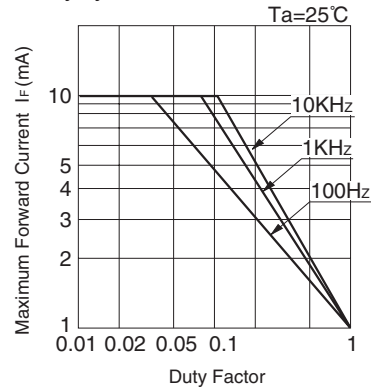
■ Forward Current vs. Relative Intensity



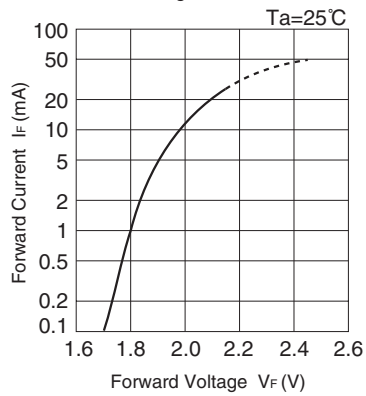
■ Duty Cycle vs. Relative Intensity



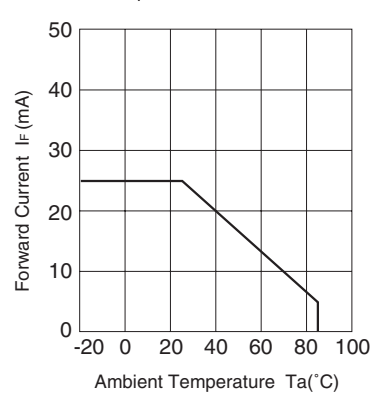
■ Duty Cycle vs. Maximum Forward Current



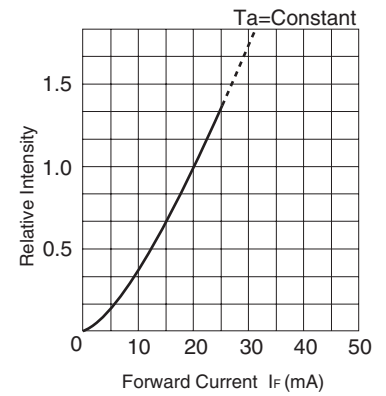
■ Forward Voltage vs. Forward Current



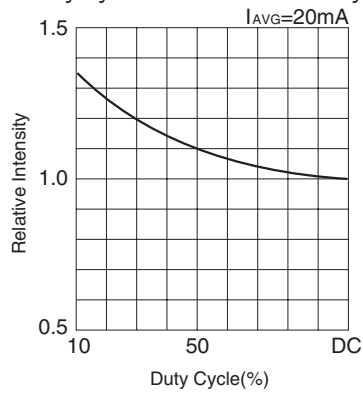
■ Ambient Temperature vs. Maximum Forward Current



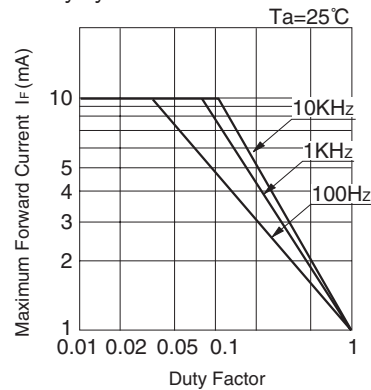
■ Forward Current vs. Relative Intensity



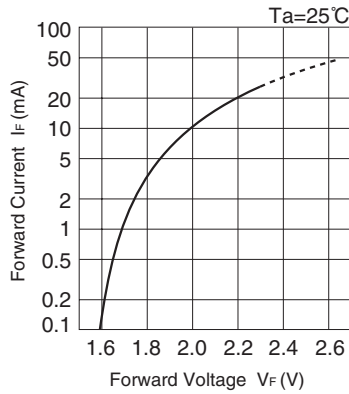
■ Duty Cycle vs. Relative Intensity



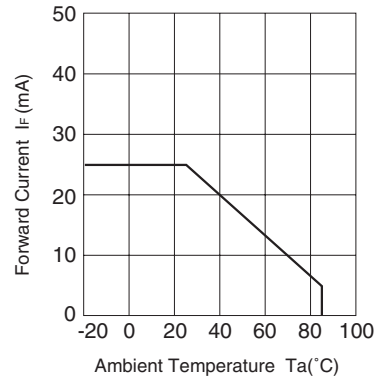
■ Duty Cycle vs. Maximum Forward Current



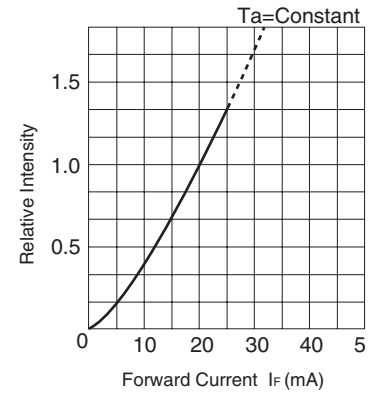
■ Forward Voltage vs. Forward Current



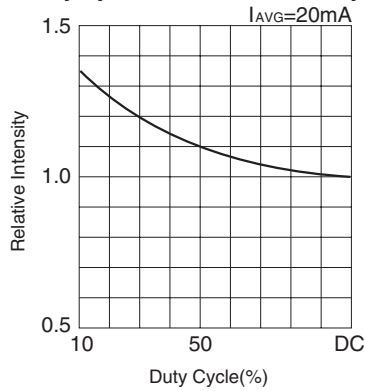
■ Ambient Temperature vs. Maximum Forward Current



■ Forward Current vs. Relative Intensity



■ Duty Cycle vs. Relative Intensity



■ Duty Cycle vs. Maximum Forward Current

