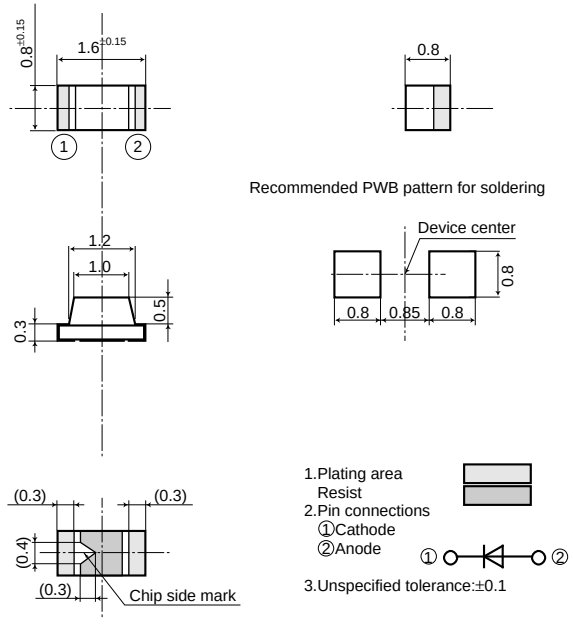
LT1❑67A series

1608 Size, 0.8mm Thickness, Leadless Chip LED Devices

■ Outline Dimensions

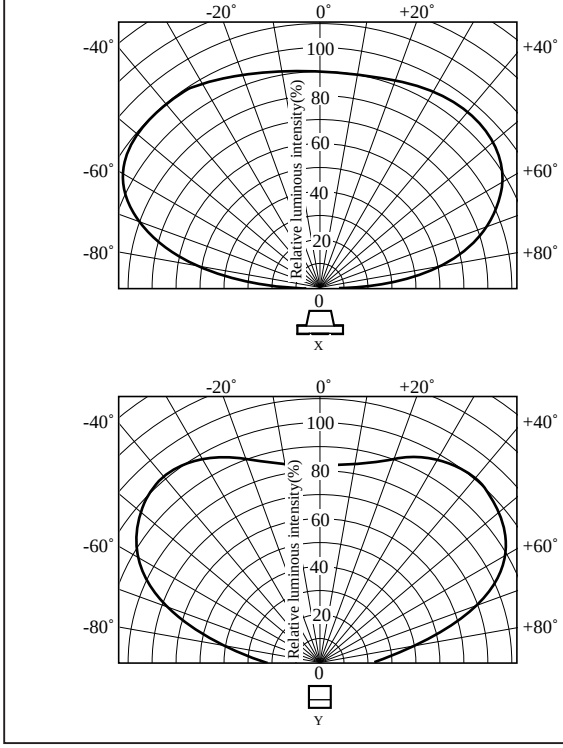
(Unit : mm)



U type: There is Anode mark on the device because polarity faces in the opposite direction.

■ Radiation Diagram

(Ta=25˚C)



■ Absolute Maximum Ratings

(Ta=25˚C)

Model No.	Radiation color	Radiation material	Power dissipation P (mW)	Forward current I_F (mA)	Peak forward current I_{FM}*1 (mA)	Derating factor (mA/˚C) DC	Derating factor (mA/˚C) Pulse	Reverse voltage V_R (V)	Operating temperature T_{opr} (˚C)	Storage temperature T_{stg} (˚C)	Soldering temperature T_{sol}*2 (˚C)
LT1U67A	Red(Super-luminosity)	GaAlAs on GaAlAs	75	30	50	0.40	0.67	4	-30 to +85	-40 to +100	350
LT1P67A	Red	GaP	23	10	50	0.13	0.67	5	-30 to +85	-40 to +100	350
LT1D67A	Red	GaAsP on GaP	84	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350
LT1S67A	Sunset orange	GaAsP on GaP	84	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350
LT1H67A	Yellow	GaAsP on GaP	84	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350
LT1E67A	Yellow-green	GaP	84	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350
LT1F67A	Yellow-green(High-luminosity)	GaP	84	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350
LT1K67A	Green	GaP	84	30	50	0.40	0.67	5	-30 to +85	-40 to +100	350

*1 Duty ratio=1/10, Pulse width=0.1ms

*2 For 3s or less at the temperature of hand soldering. Temperature of reflow soldering is shown on the below page.

■ Electro-optical Characteristics

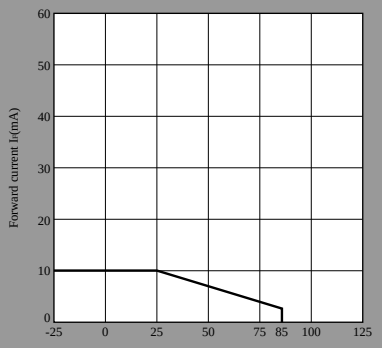
(Ta=25˚C)

Lens type	Model No.	Forward voltage V_F(V) TYP	Forward voltage V_F(V) MAX	Peak emission wavelength λ_p(nm) TYP	Peak emission wavelength I_F (mA)	Luminous intensity I_V(mcd) TYP	Luminous intensity I_F (mA)	Spectrum radiation bandwidth Δλ(nm) TYP	Spectrum radiation bandwidth I_F (mA)	Reverse current I_R(μA) MAX	Reverse current V_R (V)	Terminal capacitance C_t(pF) TYP	Terminal capacitance (MHz)	Page for characteristics diagrams
Milky diffusion	LT1U67A	1.85	2.5	660	20	29.7	20	20	20	100	3	25	1	→
	LT1P67A	1.9	2.3	695	5	1.3	5	100	5	10	4	55	1	→
	LT1D67A	2.0	2.8	635	20	8.8	20	35	20	10	4	20	1	→
	LT1S67A	2.0	2.8	610	20	6.9	20	35	20	10	4	15	1	→
	LT1H67A	2.0	2.8	585	20	8.3	20	30	20	10	4	35	1	→
	LT1E67A	2.1	2.8	565	20	11.0	20	30	20	10	4	35	1	→
	LT1F67A	2.1	2.8	570	20	19.0	20	30	20	10	4	35	1	—
	LT1K67A	2.1	2.8	555	20	3.8	20	25	20	10	4	40	1	→

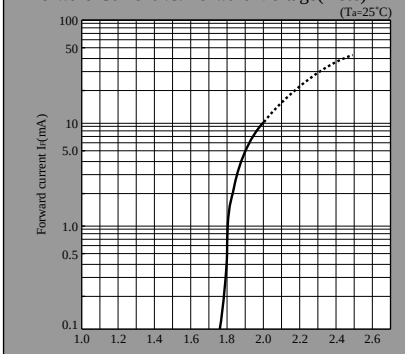
LED Lamp Characteristics Diagrams

PR series

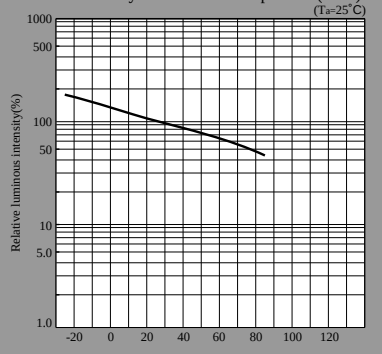
Forward Current Derating Curve



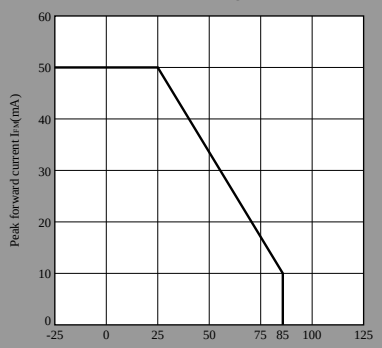
Forward Current vs. Forward Voltage(Note)



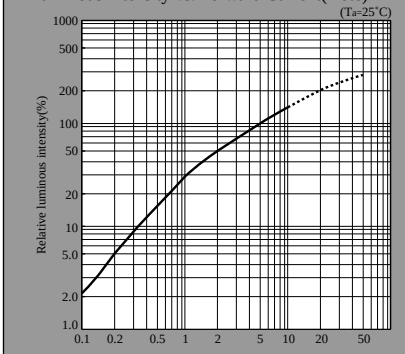
Luminous Intensity vs. Ambient Temperature(Note)



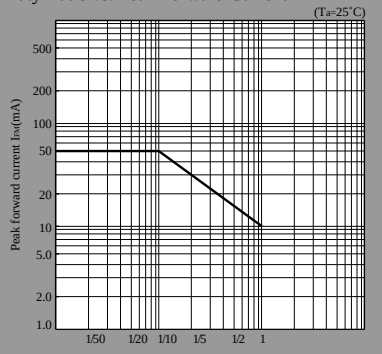
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

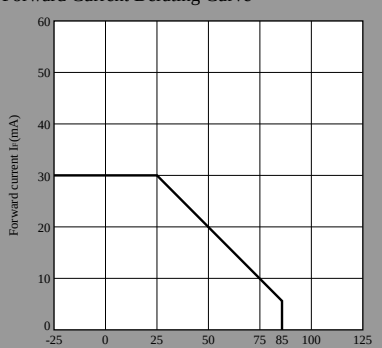


Duty Ratio vs. Peak Forward Current

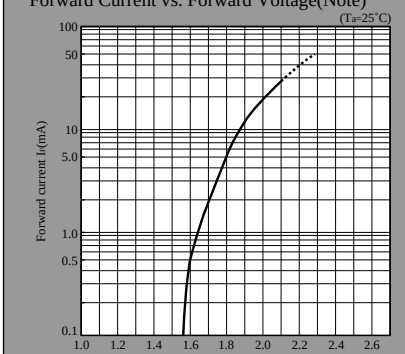


HD series

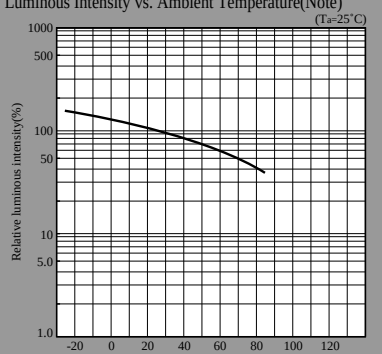
Forward Current Derating Curve



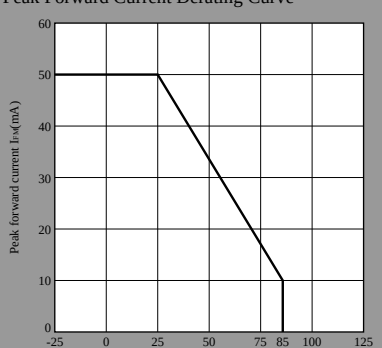
Forward Current vs. Forward Voltage(Note)



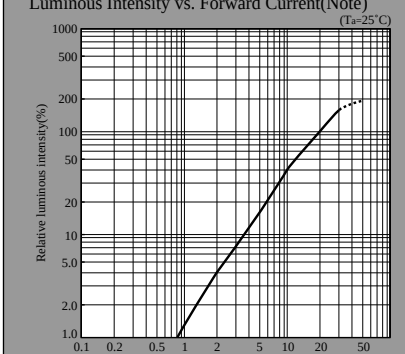
Luminous Intensity vs. Ambient Temperature(Note)



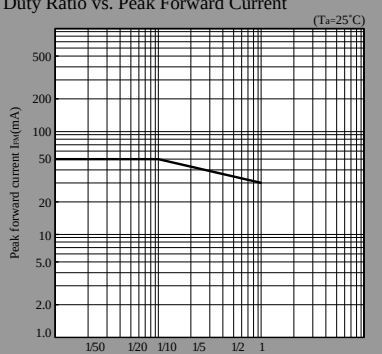
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current

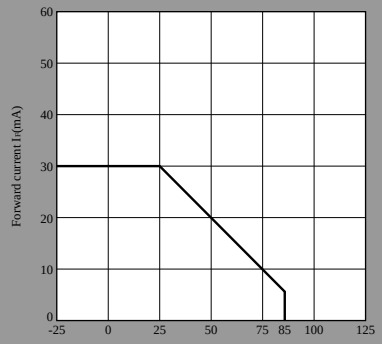


Note)Characteristics shown in diagrams are typical values. (not assurance value)

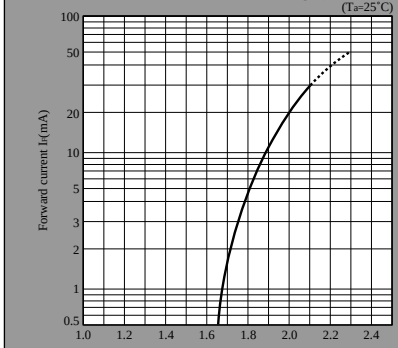
LED Lamp Characteristics Diagrams

HS series

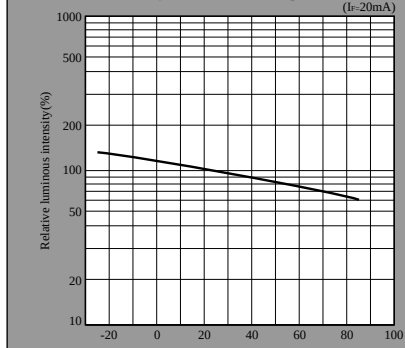
Forward Current Derating Curve



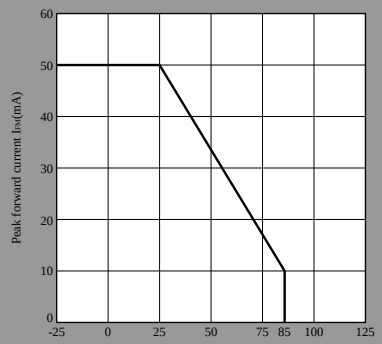
Forward Current vs. Forward Voltage(Note)



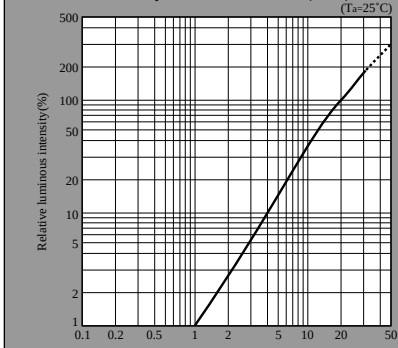
Luminous Intensity vs. Ambient Temperature(Note)



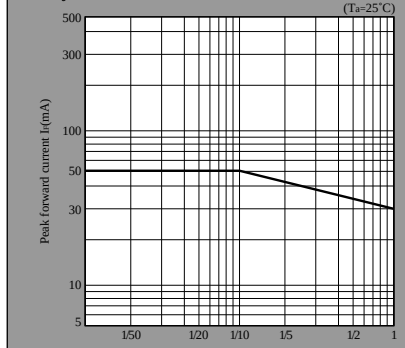
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

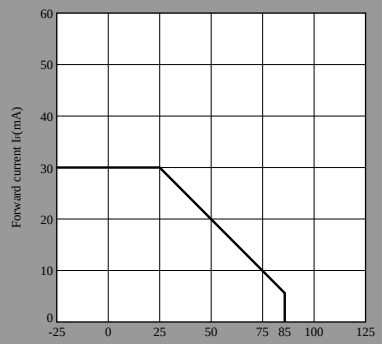


Duty Ratio vs. Peak Forward Current

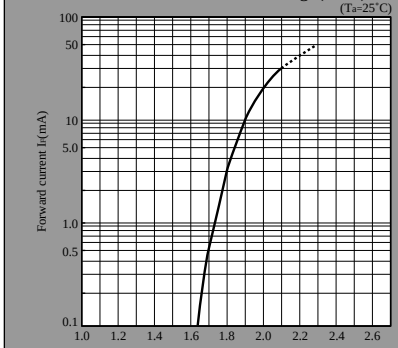


HY series

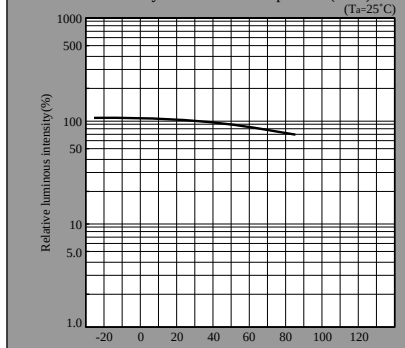
Forward Current Derating Curve



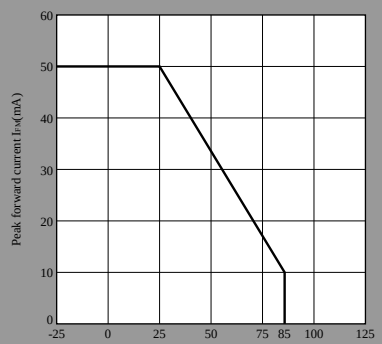
Forward Current vs. Forward Voltage(Note)



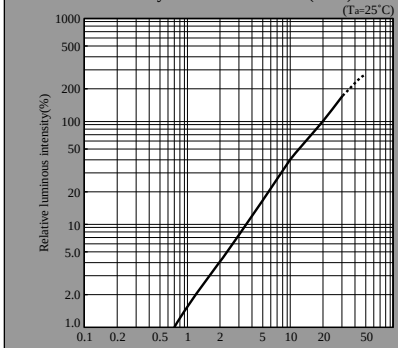
Luminous Intensity vs. Ambient Temperature(Note)



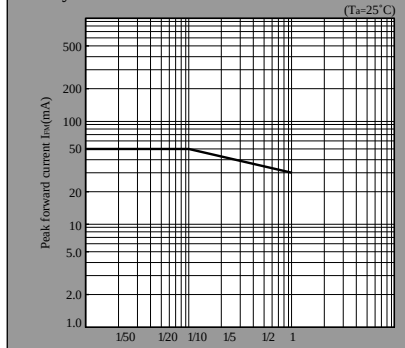
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current

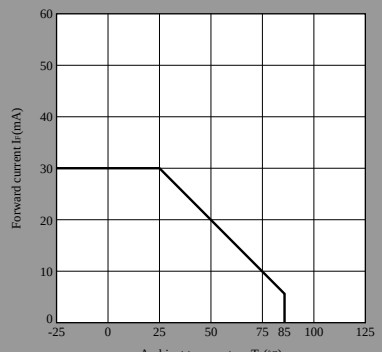


Note)Characteristics shown in diagrams are typical values. (not assurance value)

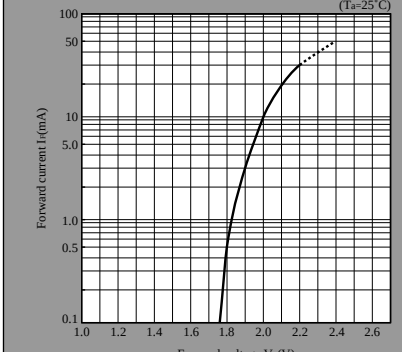
LED Lamp Characteristics Diagrams

EG series

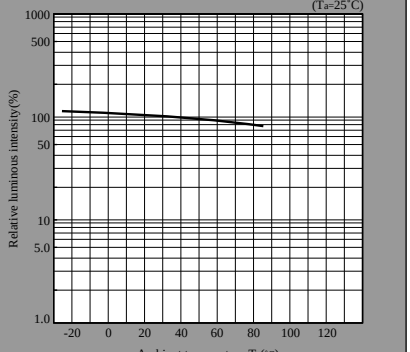
Forward Current Derating Curve



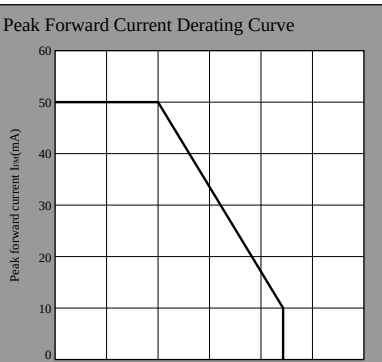
Forward Current vs. Forward Voltage(Note)



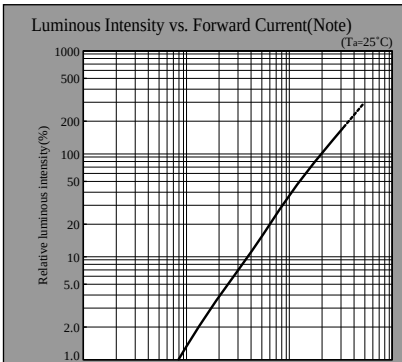
Luminous Intensity vs. Ambient Temperature(Note)



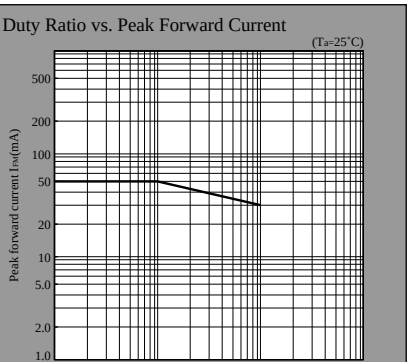
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

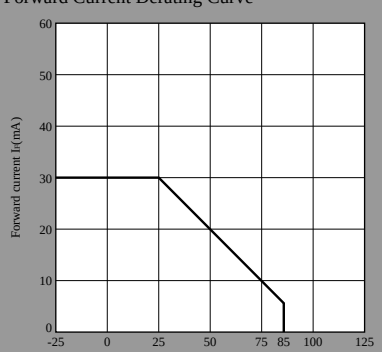


Duty Ratio vs. Peak Forward Current

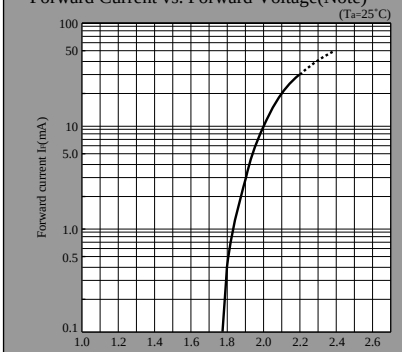


KG series

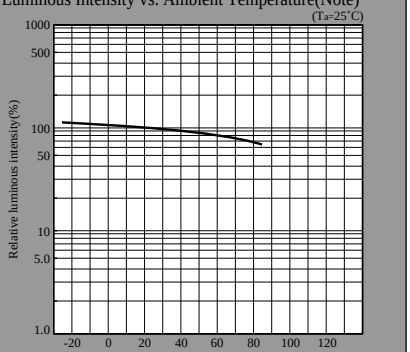
Forward Current Derating Curve



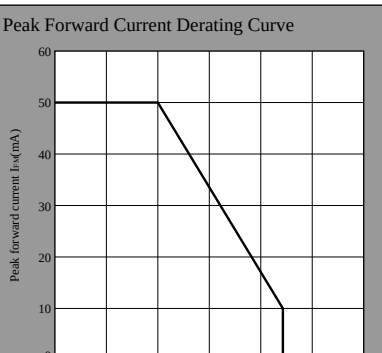
Forward Current vs. Forward Voltage(Note)



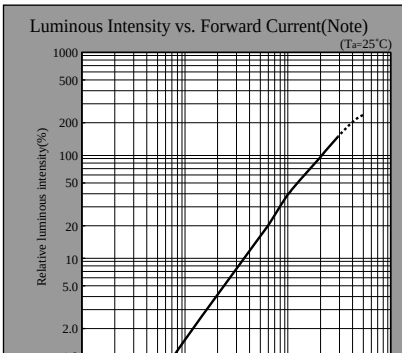
Luminous Intensity vs. Ambient Temperature(Note)



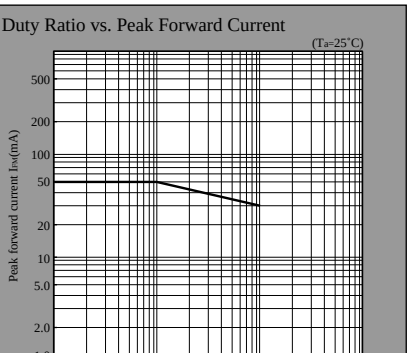
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



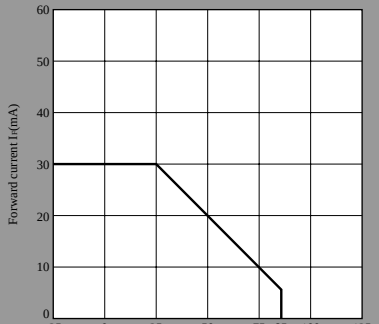
Duty Ratio vs. Peak Forward Current



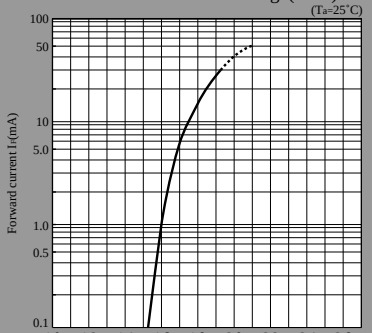
Note)Characteristics shown in diagrams are typical values. (not assurance value)

UR series

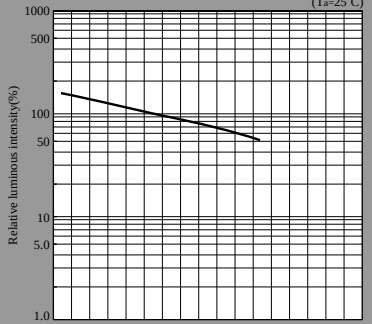
Forward Current Derating Curve



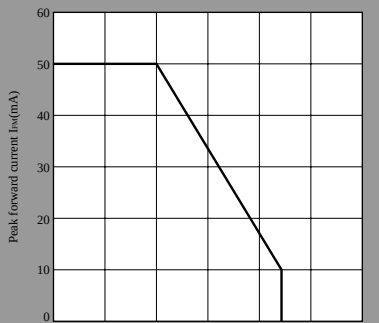
Forward Current vs. Forward Voltage(Note)



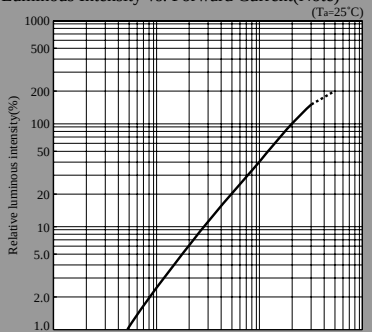
Luminous Intensity vs. Ambient Temperature(Note)



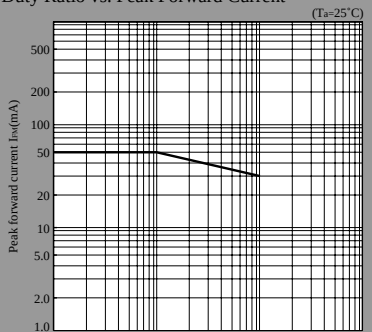
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current



Note)Characteristics shown in diagrams are typical values. (not assurance value)