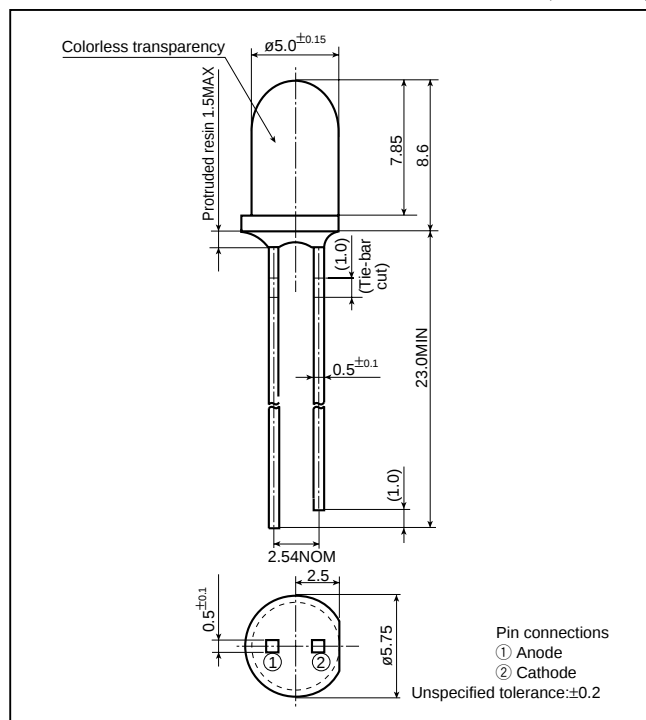


GL5Z□44 series

Viewing Angle: 15° (2θ1/2) ø5mm,
Cylinder Type, Colorless
Transparency Super-luminosity
LED Lamps for Outdoor Use

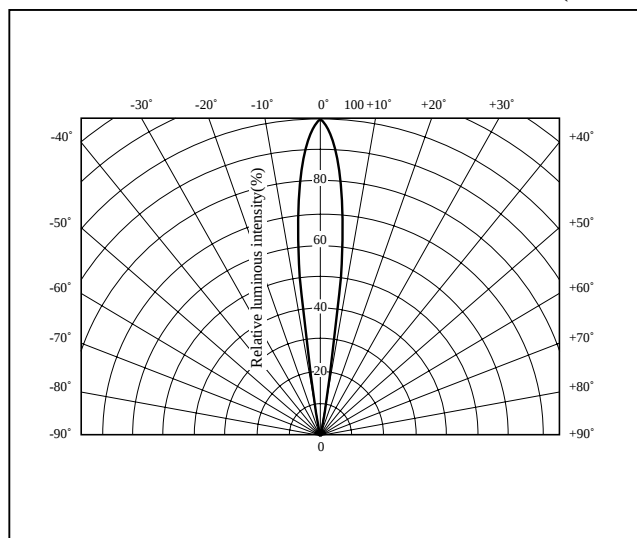
■ Outline Dimensions

(Unit : mm)



■ Directive Characteristics

(Ta=25°C)



■ Absolute Maximum Ratings

(Ta=25°C)

Model No.	Emitting color	Material	Power dissipation P (mW)	Forward current IF (mA)	Peak forward current IFM*1 (mA)	Derating factor (mA/°C)		Reverse voltage VR (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)	Soldering temperature T _{sol} *2 (°C)
						DC	Pulse				
GL5ZR44	Red	AlGaInP on GaAs	130	50	100	0.67	1.33	5	-40 to +85	-40 to +100	260
GL5ZJ44	Orange	AlGaInP on GaAs	130	50	100	0.67	1.33	5	-40 to +85	-40 to +100	260
GL5ZS44	Sunset orange	AlGaInP on GaAs	130	50	100	0.67	1.33	5	-40 to +85	-40 to +100	260
GL5ZV44	Amber	AlGaInP on GaAs	130	50	100	0.67	1.33	5	-40 to +85	-40 to +100	260
GL5ZE44	Yellow-green	AlGaInP on GaAs	130	50	100	0.67	1.33	5	-40 to +85	-40 to +100	260
GL5ZG44	Green	AlGaInP on GaAs	130	50	100	0.67	1.33	5	-40 to +85	-40 to +100	260

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

*2 5s or less(At the position of 1.6mm or more from the bottom face of resin package)

■ Electro-optical Characteristics

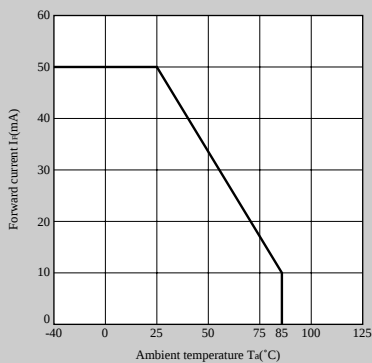
(IF=20mA, Ta=25°C)

Lens type	Model No.	Forward voltage VF(V)		Peak emission wavelength λp(nm)	Dominant wavelength λd(nm)	Luminous intensity Iv(mcd)	Spectrum radiation bandwidth Δλ(nm)	Reverse current		Terminal capacitance		Page for characteristics diagrams
		TYP	MAX	TYP	TYP	TYP	TYP	IR(μA) MAX	VR (V)	Ct(pF) TYP	(MHz)	
Colorless transparency	GL5ZR44	2.1	2.6	647	635	1 700	20	100	4	60	1	96
	GL5ZJ44	2.1	2.6	627	618	3 400	15	100	4	60	1	96
	GL5ZS44	2.1	2.6	609	605	4 200	15	100	4	60	1	97
	GL5ZV44	2.1	2.6	591	588	3 100	15	100	4	60	1	98
	GL5ZE44	2.1	2.6	570	570	700	15	100	4	60	1	98
	GL5ZG44	2.1	2.6	560	560	200	15	100	4	60	1	99

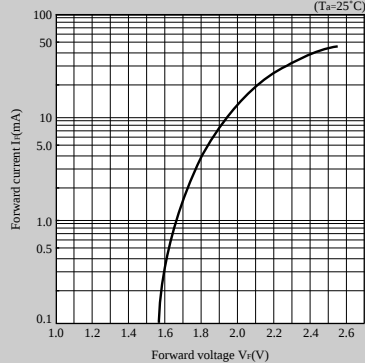
Characteristics Diagrams

ZR series

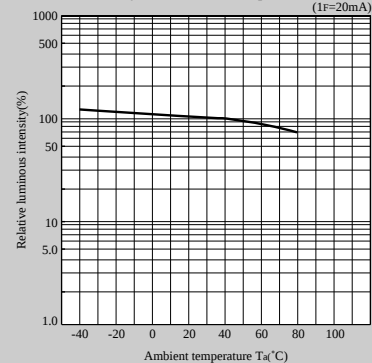
Forward Current Derating Curve



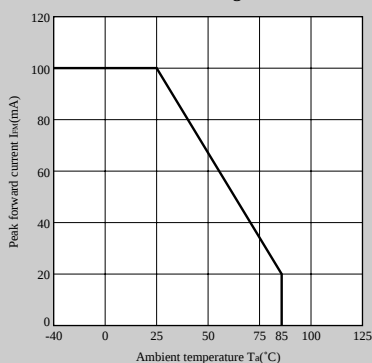
Forward Current vs. Forward Voltage(Note)



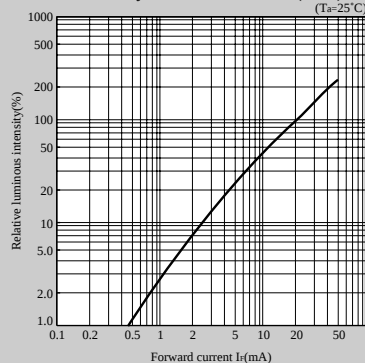
Luminous Intensity vs. Ambient Temperature(Note)



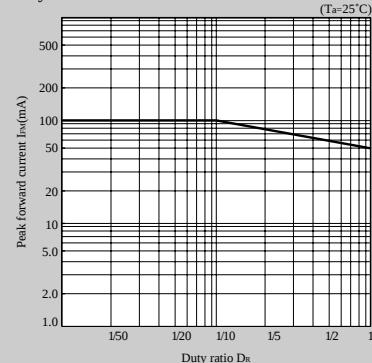
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

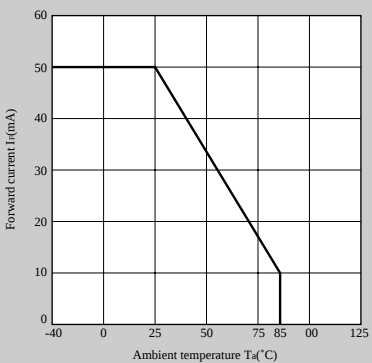


Duty Ratio vs. Peak Forward Current

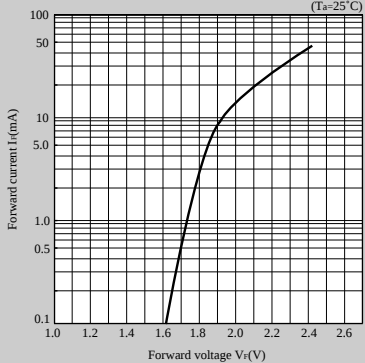


ZJ series

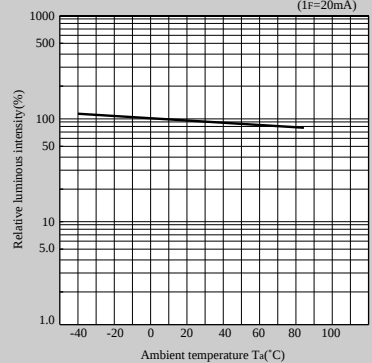
Forward Current Derating Curve



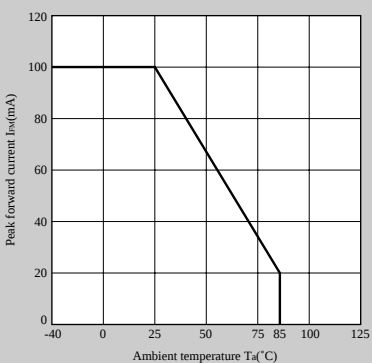
Forward Current vs. Forward Voltage(Note)



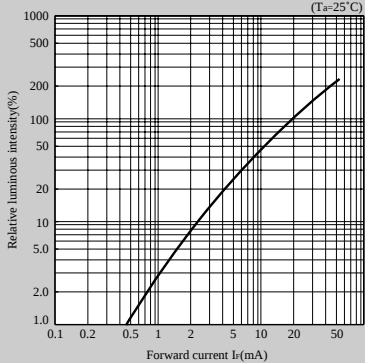
Luminous Intensity vs. Ambient Temperature(Note)



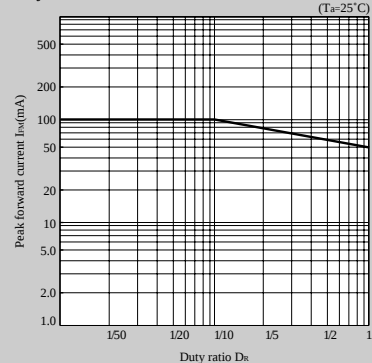
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current

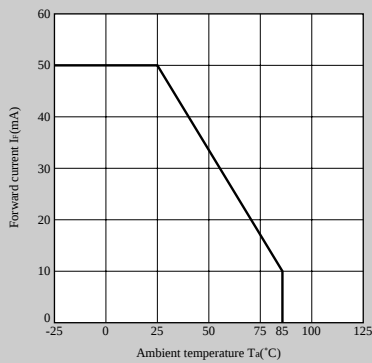


Note) Characteristics shown in diagrams are typical values. (not assurance value)

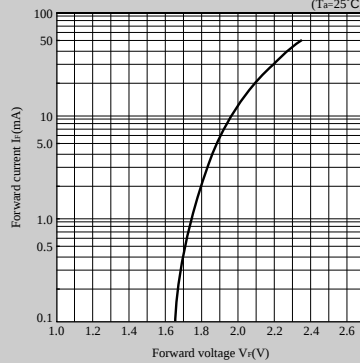
Characteristics Diagrams

ZS series

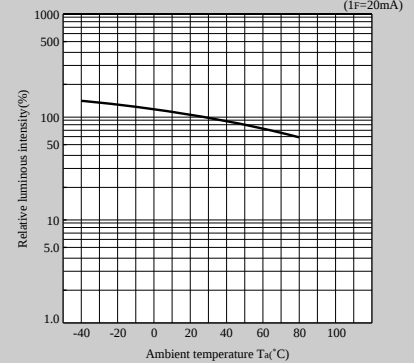
Forward Current Derating Curve



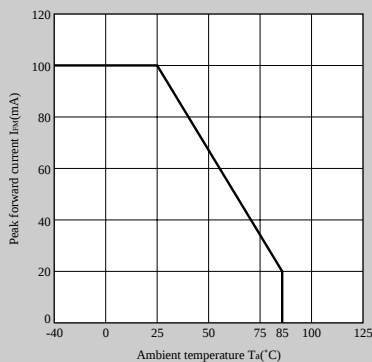
Forward Current vs. Forward Voltage(Note)



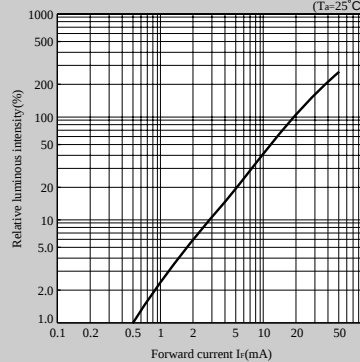
Luminous Intensity vs. Ambient Temperature(Note)



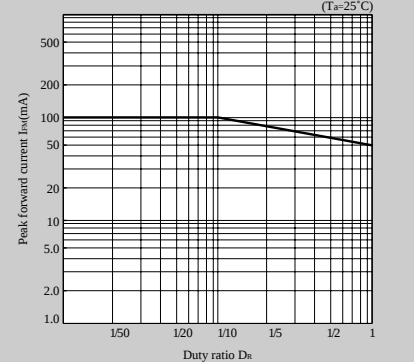
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

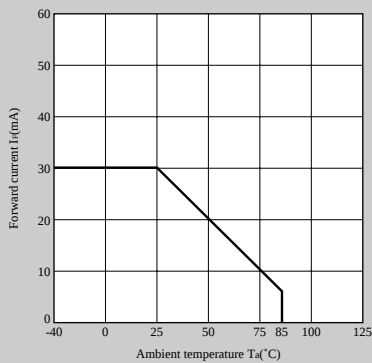


Duty Ratio vs. Peak Forward Current

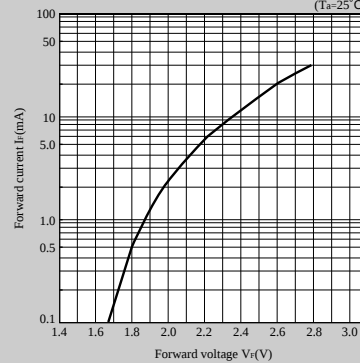


GL5XS022BOS

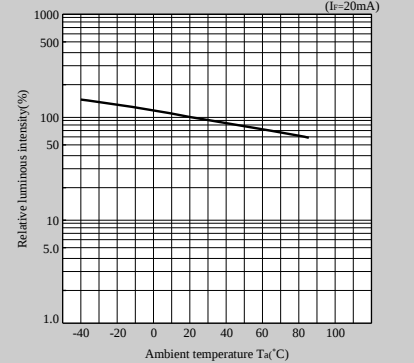
Forward Current Derating Curve



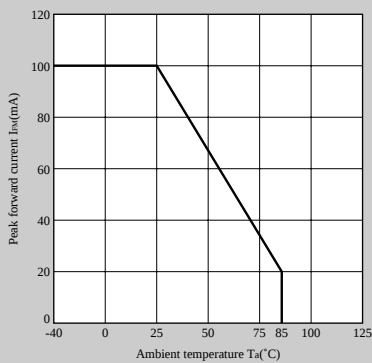
Forward Current vs. Forward Voltage(Note)



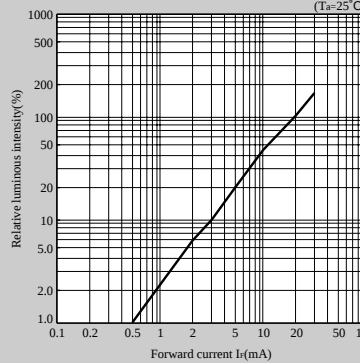
Luminous Intensity vs. Ambient Temperature(Note)



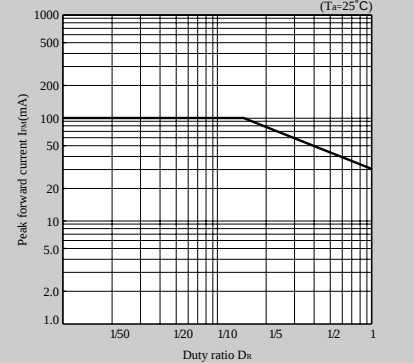
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current

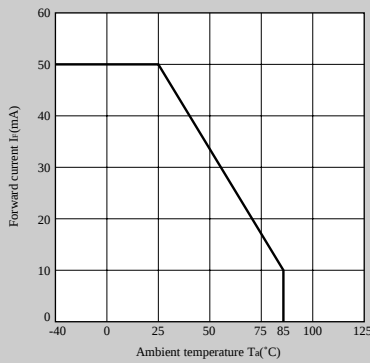


Note) Characteristics shown in diagrams are typical values. (not assurance value)

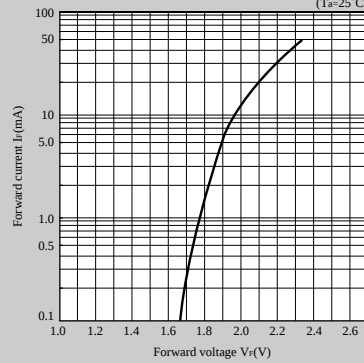
Characteristics Diagrams

ZV series

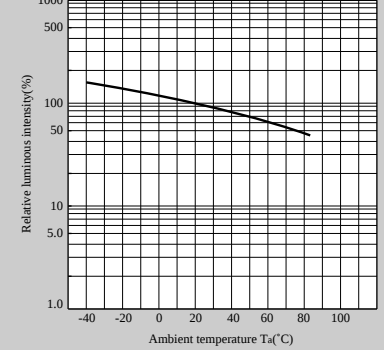
Forward Current Derating Curve



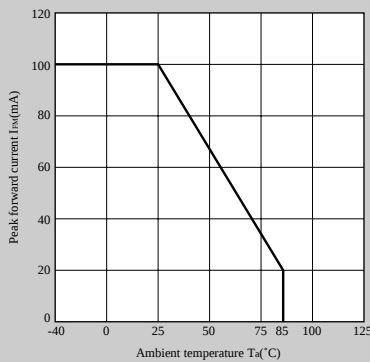
Forward Current vs. Forward Voltage(Note)



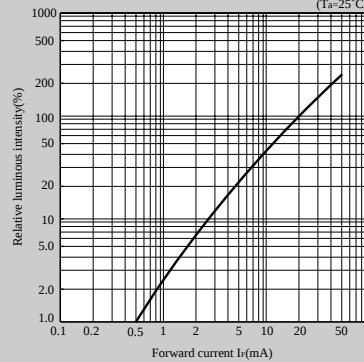
Luminous Intensity vs. Ambient Temperature(Note)



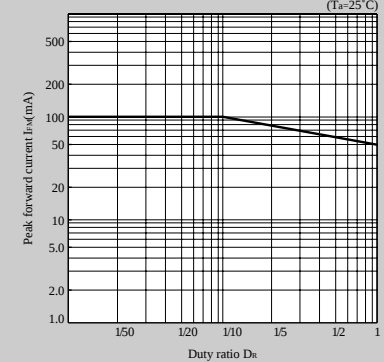
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

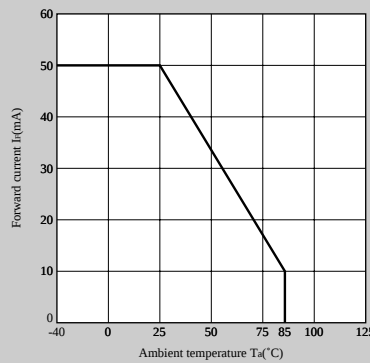


Duty Ratio vs. Peak Forward Current

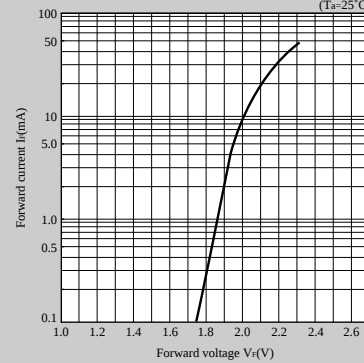


ZE series

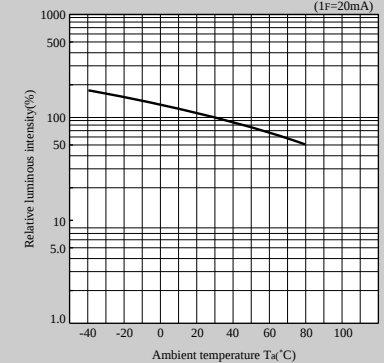
Forward Current Derating Curve



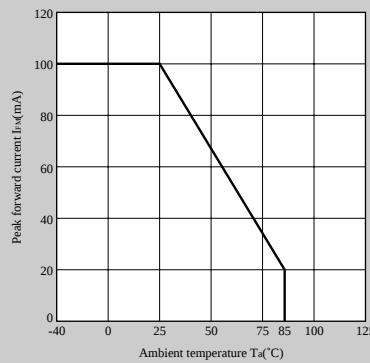
Forward Current vs. Forward Voltage(Note)



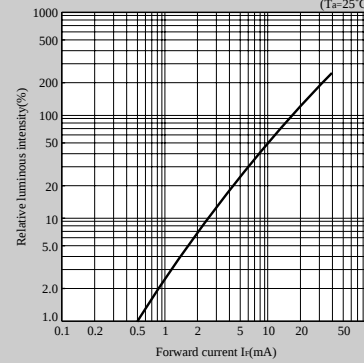
Luminous Intensity vs. Ambient Temperature(Note)



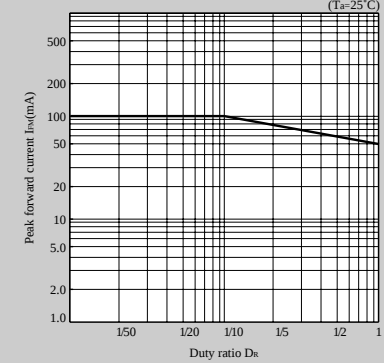
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current

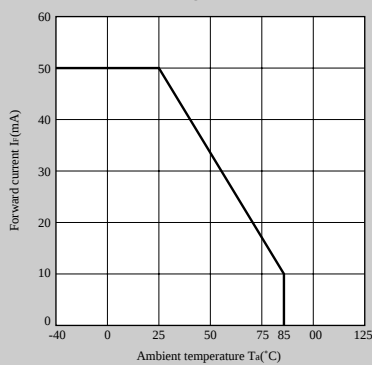


Note) Characteristics shown in diagrams are typical values. (not assurance value)

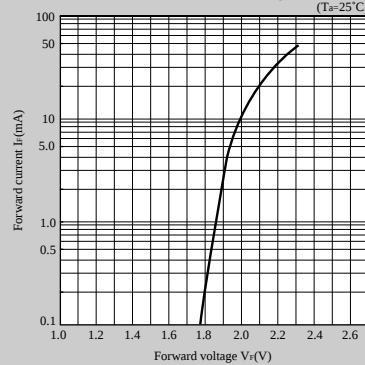
Characteristics Diagrams

ZG series

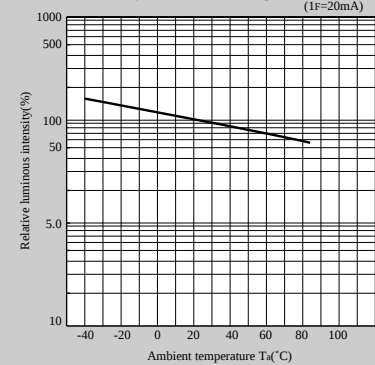
Forward Current Derating Curve



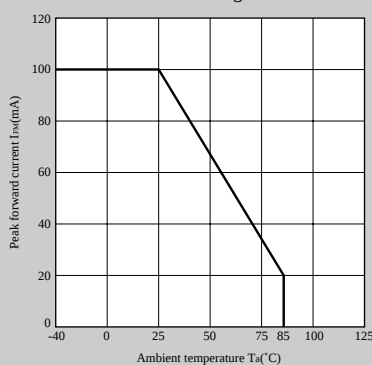
Forward Current vs. Forward Voltage(Note)



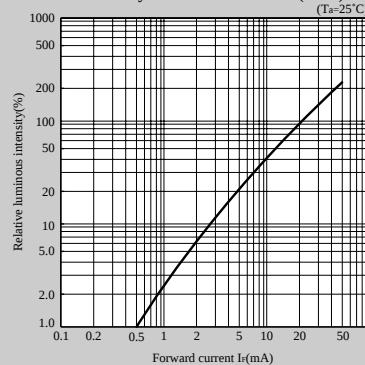
Luminous Intensity vs. Ambient Temperature(Note)



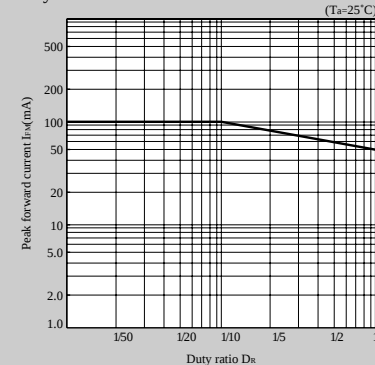
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)

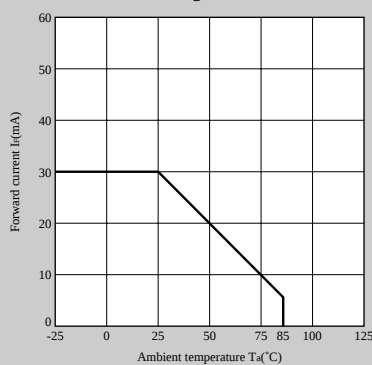


Duty Ratio vs. Peak Forward Current

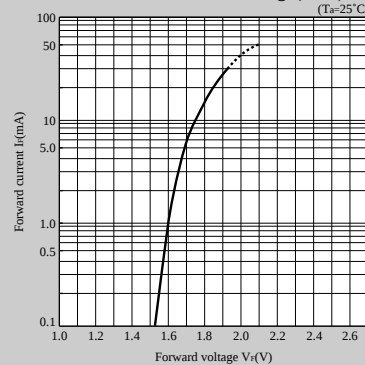


UR,U series

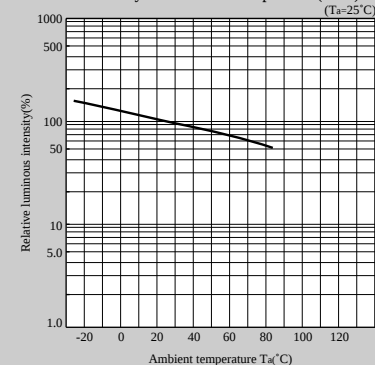
Forward Current Derating Curve



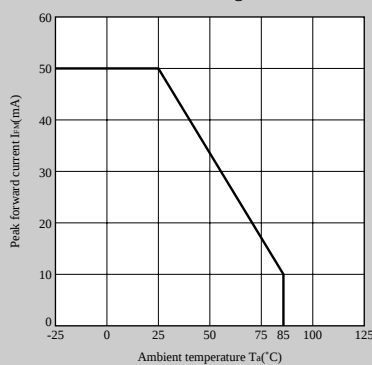
Forward Current vs. Forward Voltage(Note)



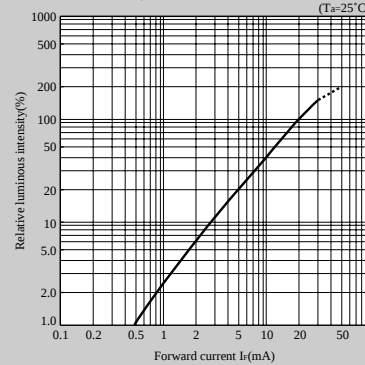
Luminous Intensity vs. Ambient Temperature(Note)



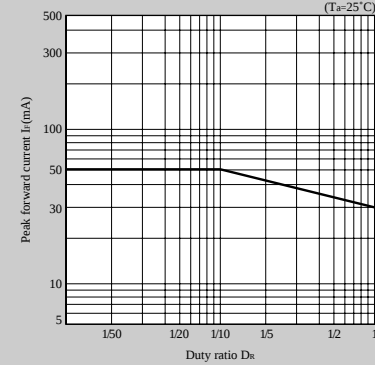
Peak Forward Current Derating Curve



Luminous Intensity vs. Forward Current(Note)



Duty Ratio vs. Peak Forward Current



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

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