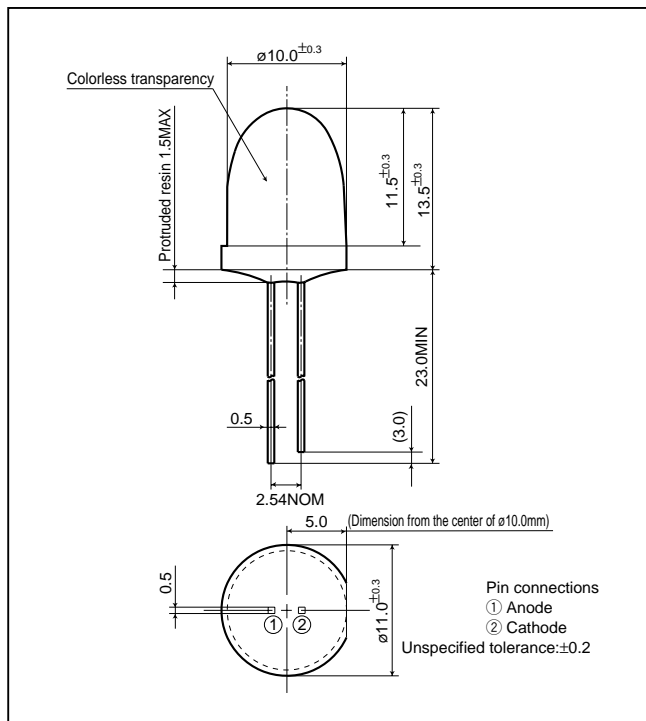


# GL0Z□042B0S series

Viewing Angle: 4° (2θ1/2) ø10mm,  
Cylinder Type, Colorless  
Transparency Super-luminosity  
LED Lamps for Outdoor Use

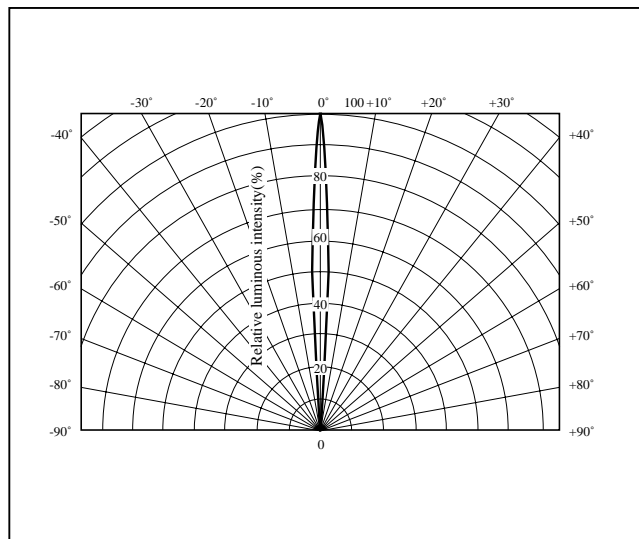
## Outline Dimensions

(Unit : mm)



## Directive Characteristics

(T<sub>a</sub>=25°C)



## Absolute Maximum Ratings

(T<sub>a</sub>=25°C)

Model No.	Emitting color	Material	Power dissipation P (mW)	Forward current I <sub>F</sub> (mA)	Peak forward current I <sub>FM</sub> *1 (mA)	Derating factor (mA/°C)		Reverse voltage V <sub>R</sub> (V)	Operating temperature T <sub>opr</sub> (°C)	Storage temperature T <sub>stg</sub> (°C)	Soldering temperature T <sub>sol</sub> *2 (°C)
						DC	Pulse				
GL0ZJ042B0S	Orange	AlGaInP on GaAs	130	50	100	0.67	1.33	5	-40 to +85	-40 to +100	260
GL0ZS042B0S	Sunset orange	AlGaInP on GaAs	130	50	100	0.67	1.33	5	-40 to +85	-40 to +100	260
GL0ZV042B0S	Amber	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)

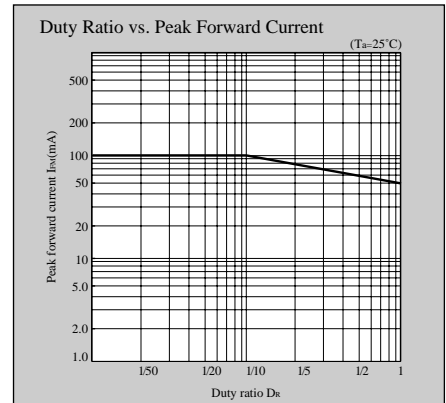
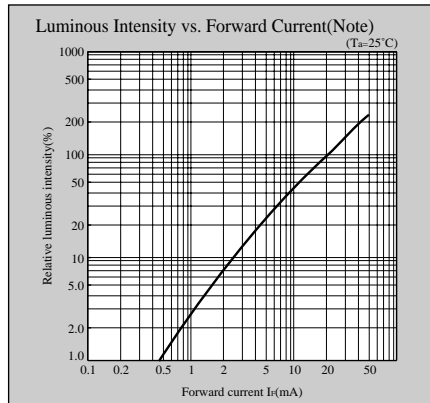
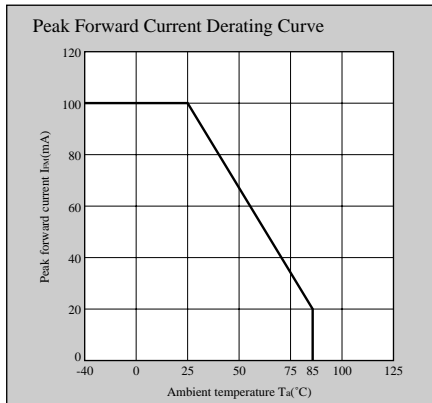
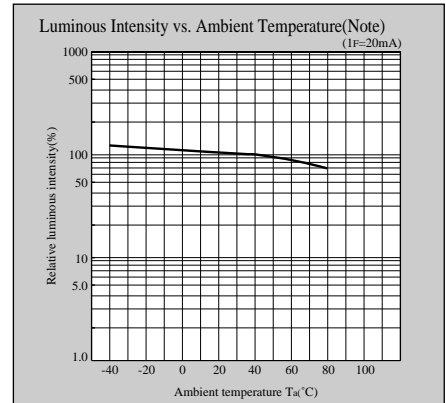
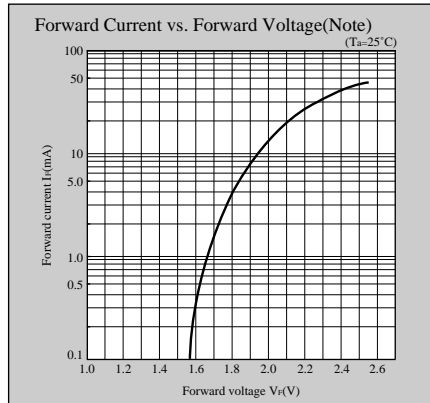
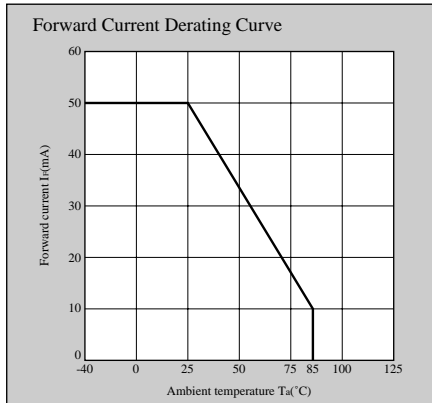
## Electro-optical Characteristics

(I<sub>F</sub>=20mA, T<sub>a</sub>=25°C)

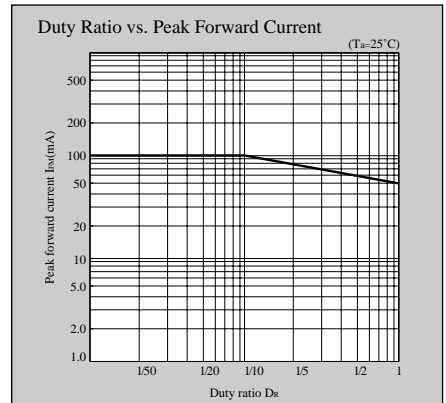
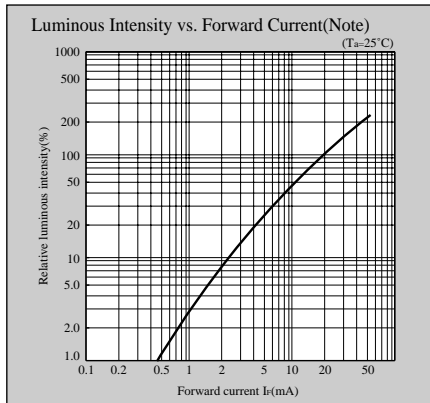
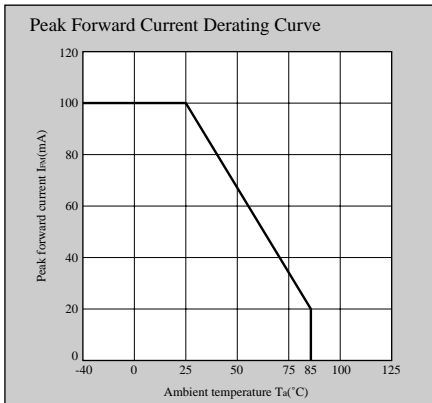
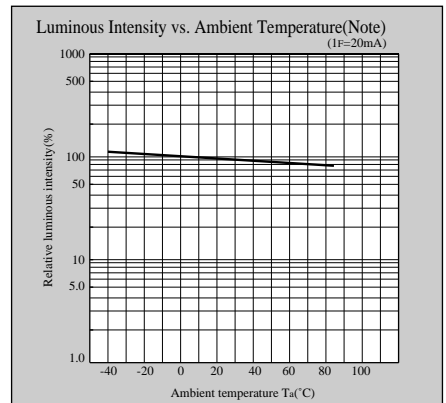
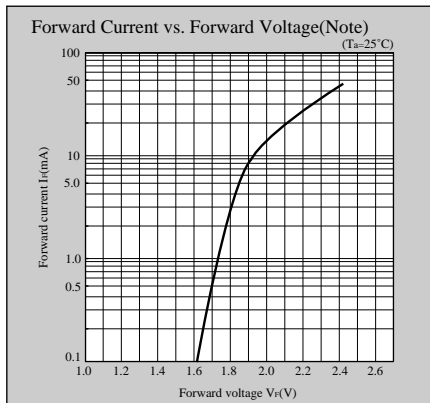
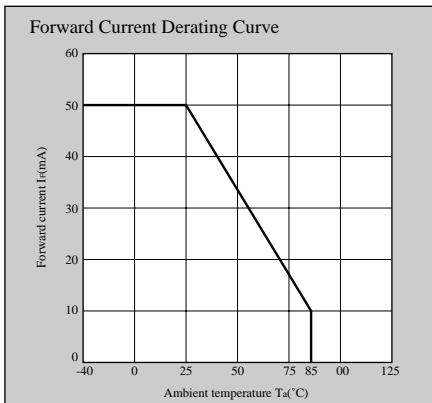
Lens type	Model No.	Forward voltage V <sub>F</sub> (V)		Peak emission wavelength λ <sub>p</sub> (nm) TYP	Dominant wavelength λ <sub>d</sub> (nm) TYP	Luminous intensity I <sub>v</sub> (mcd) TYP	Spectrum radiation bandwidth Δλ(nm) TYP	Reverse current I <sub>R</sub> (μA) MAX	V <sub>R</sub> (V)	Terminal capacitance		Page for characteristics diagrams
		TYP	MAX							C <sub>t</sub> (pF) TYP	(MHz)	
Colorless transparency	GL0ZJ042B0S	2.1	2.6	627	618	18 500	15	100	4	60	1	96
	GL0ZS042B0S	2.1	2.6	609	605	22 600	15	100	4	60	1	97
	GL0ZV042B0S	2.1	2.6	591	588	16 900	15	100	4	60	1	98

# Characteristics Diagrams

## ZR series



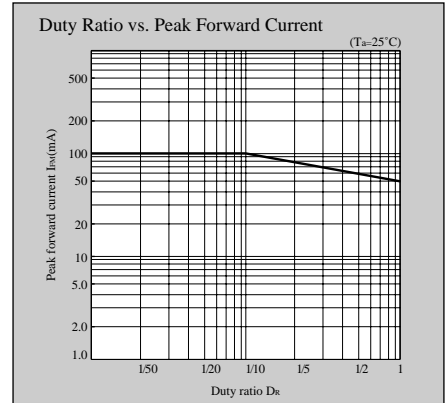
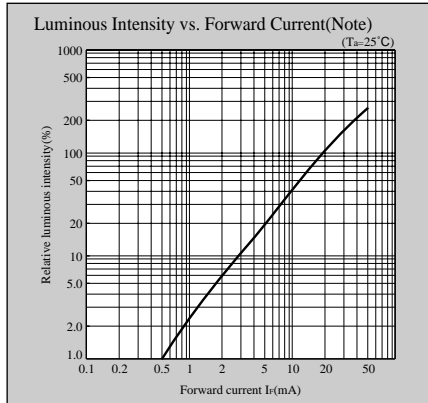
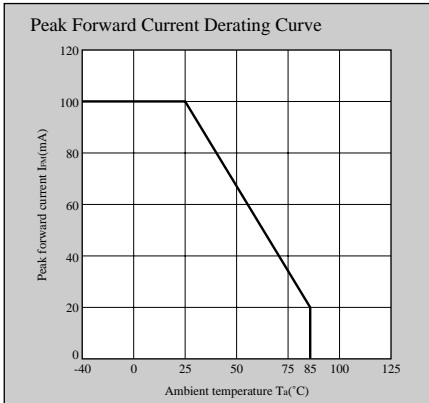
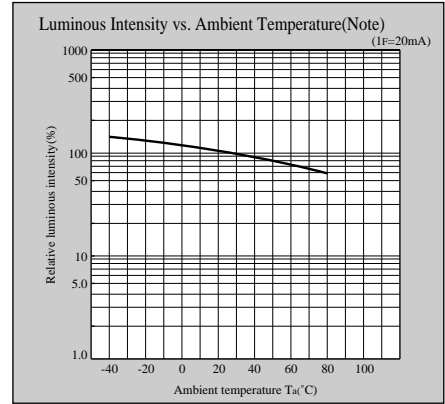
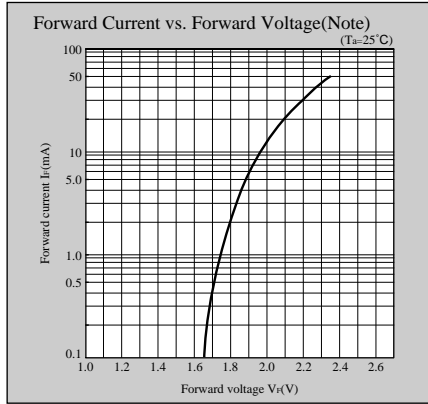
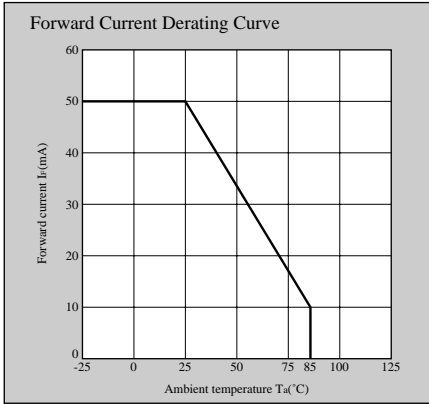
## ZJ series



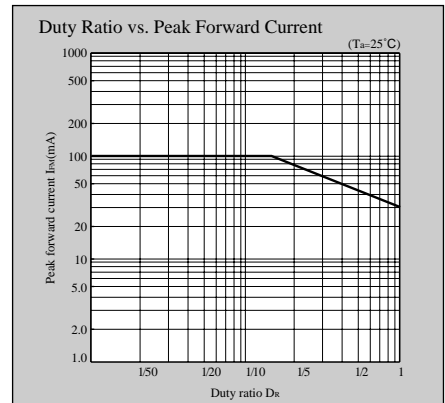
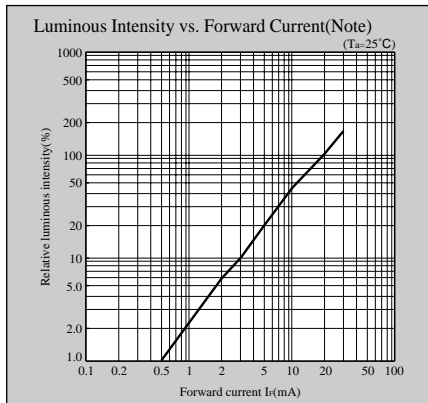
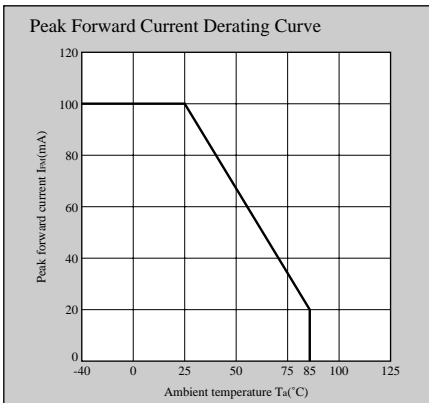
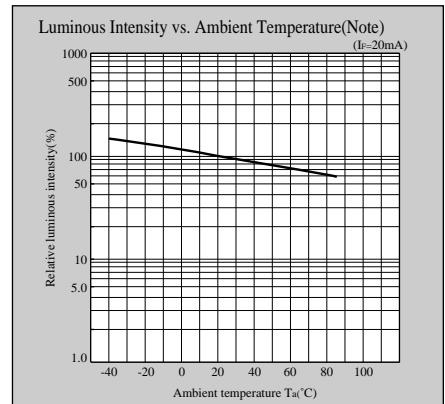
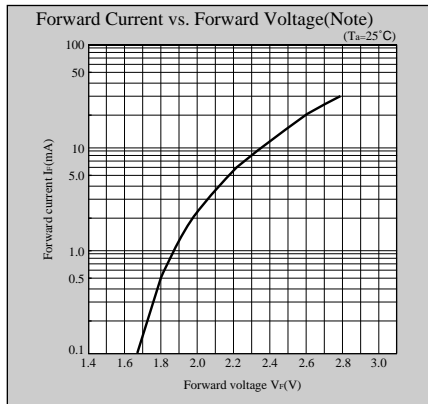
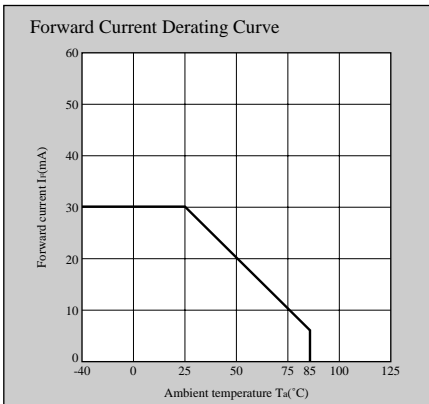
Note) Characteristics shown in diagrams are typical values. (not assurance value)

# Characteristics Diagrams

## ZS series



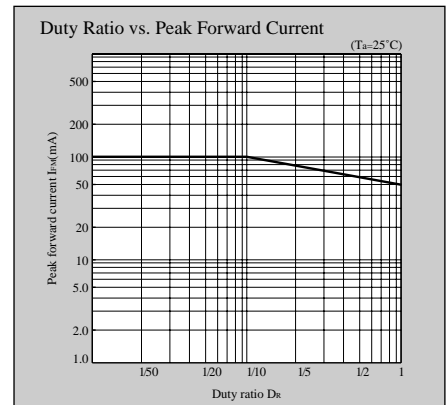
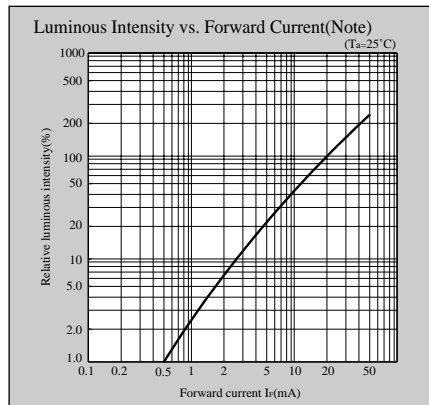
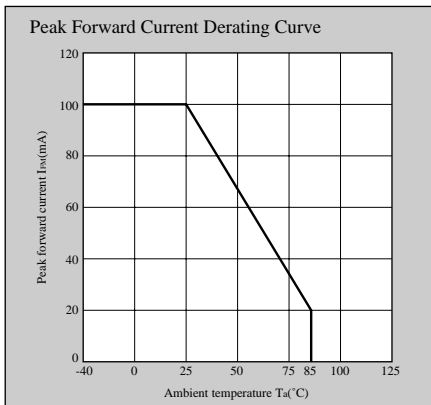
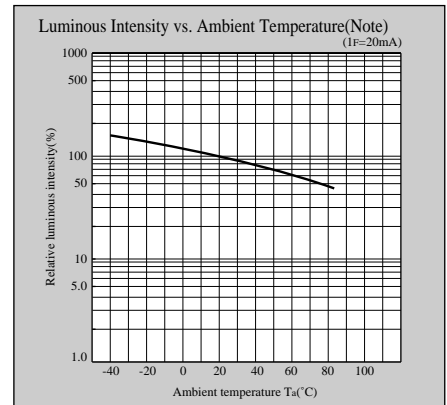
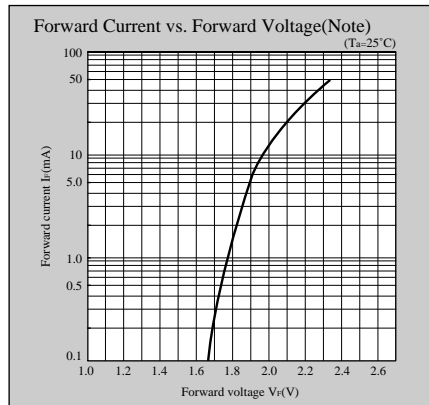
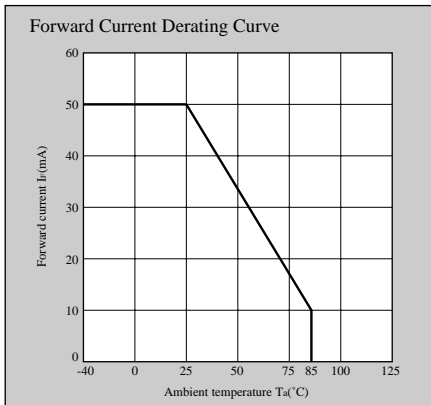
## GL5XS022BOS



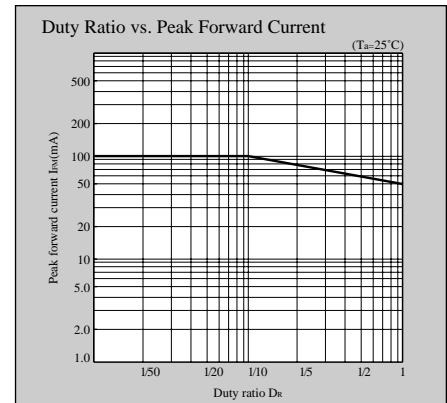
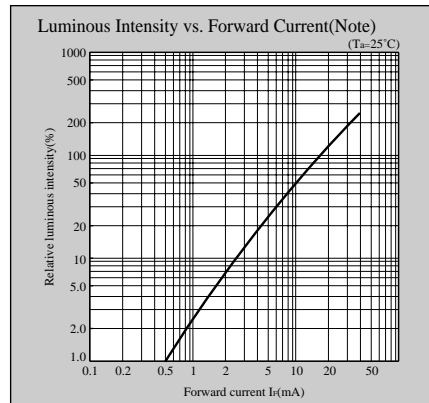
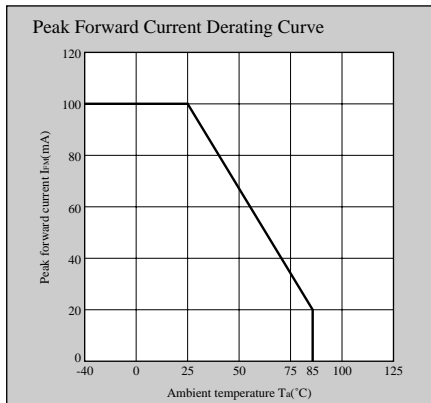
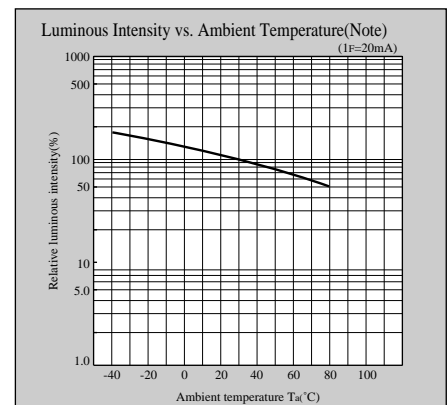
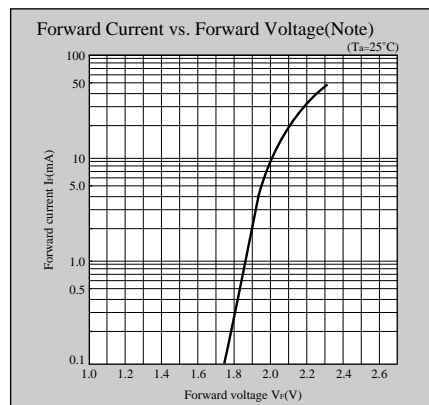
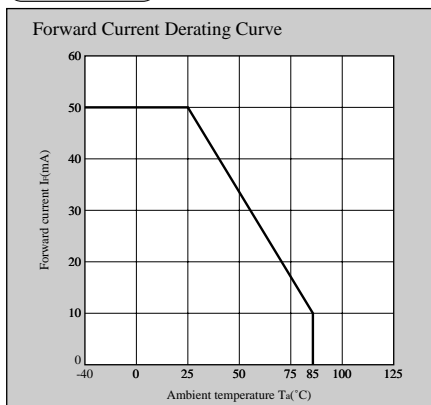
Note) Characteristics shown in diagrams are typical values. (not assurance value)

# Characteristics Diagrams

## ZV series



## ZE series



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

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- Telecommunication equipment [terminal]
- Test and measurement equipment
- Industrial control
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