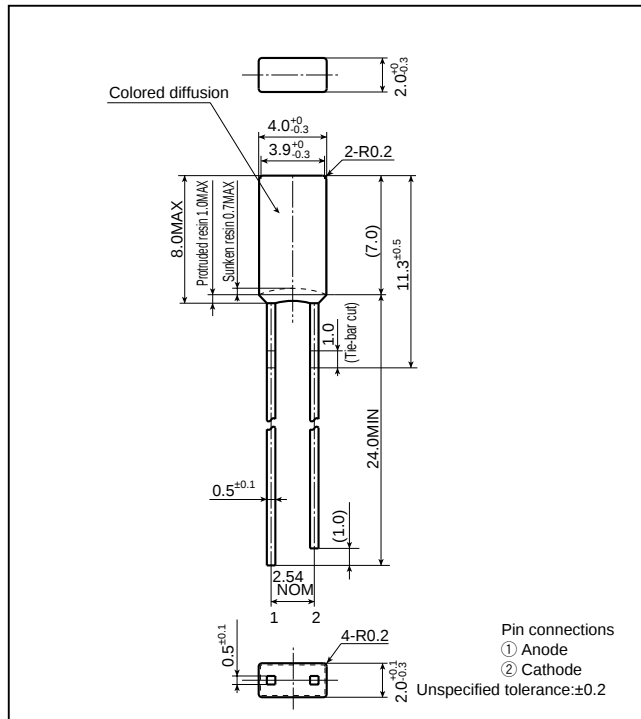


GL8□□42 series

2.0×4.0mm, Rectangle Type,
Colored Diffusion LED Lamps for
Indicator

■ Outline Dimensions

(Unit : mm)



■ Absolute Maximum Ratings

(T_a=25°C)

Model No.	Emitting color	Material	Power dissipation P (mW)	Forward current I _F (mA)	Peak forward current I _{FM} *1 (mA)	Derating factor (mA/°C)		Reverse voltage V _R (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)	Soldering temperature T _{sol} *2 (°C)
						DC	Pulse				
GL8PR42	Red	GaP	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100	260
GL8HD42	Red	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL8HS42▲	Sunset orange	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL8HY42	Yellow	GaAsP on GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL8EG42	Yellow-green	GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 to +100	260
GL8KG42	Green	GaP	84	30	50	0.40	0.67	5	-25 to +85	-25 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

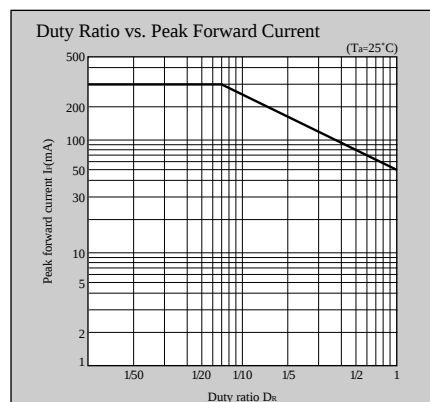
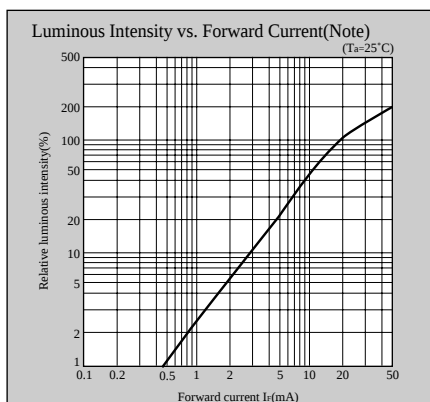
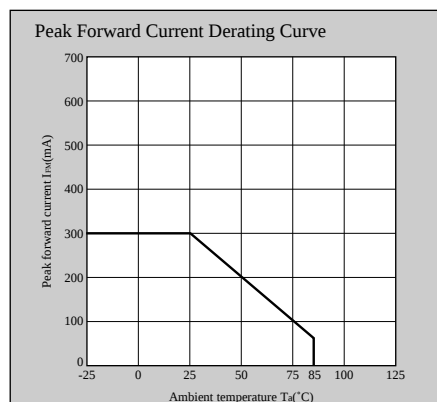
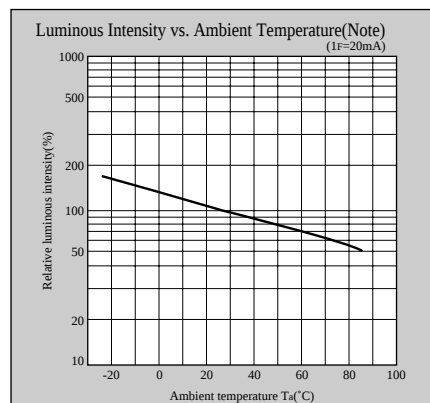
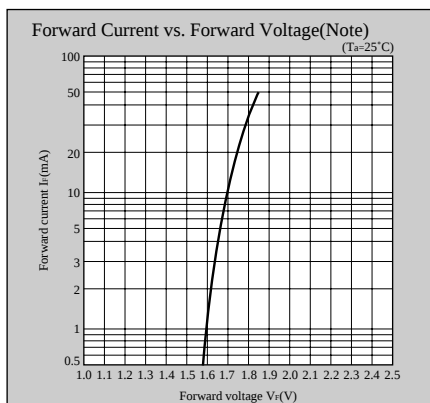
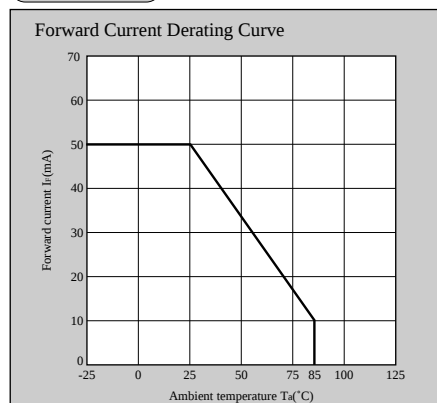
(T_a=25°C)

Lens type	Model No.	Forward voltage V _F (V)		Peak emission wavelength λ _p (nm)		Luminous intensity I _v (mcd)		Spectrum radiation bandwidth Δλ(nm)		Reverse current I _R (μA)		Terminal capacitance C _t (pF)		Page for characteristics diagrams
		TYP	MAX	TYP	I _F (mA)	TYP	I _F (mA)	TYP	I _F (mA)	MAX	V _R (V)	TYP	(MHz)	
Colored diffusion	GL8PR42	1.9	2.3	695	5	0.7	5	100	5	10	4	55	1	100
	GL8HD42	2.0	2.8	635	20	5.0	20	35	20	10	4	20	1	101
	GL8HS42▲	2.0	2.8	610	20	4.0	20	35	20	10	4	15	1	101
	GL8HY42	2.0	2.8	585	20	6.0	20	30	20	10	4	35	1	102
	GL8EG42	2.1	2.8	565	20	5.0	20	30	20	10	4	35	1	102
	GL8KG42	2.1	2.8	555	20	1.5	20	25	20	10	4	40	1	103

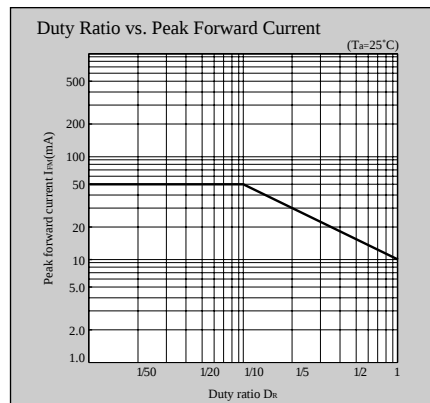
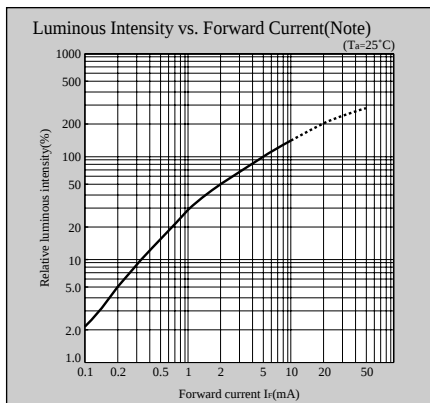
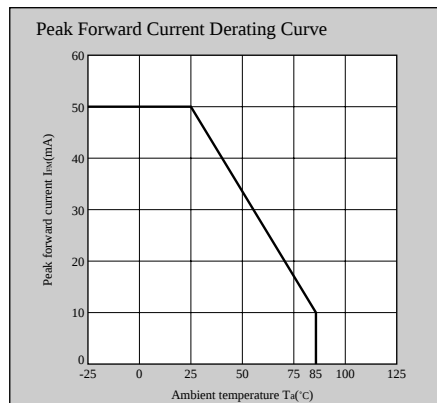
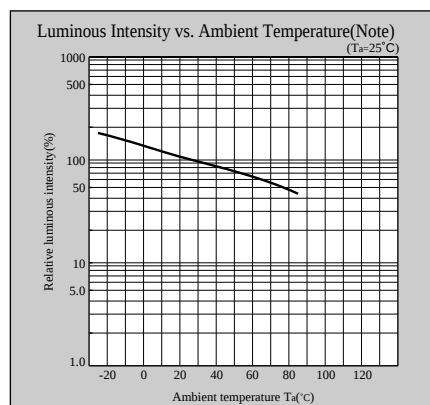
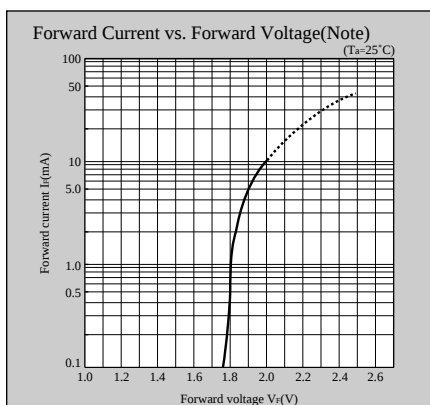
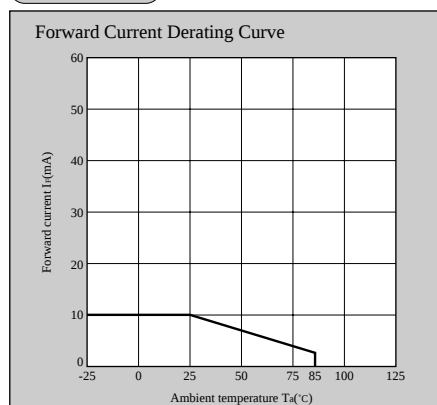
The model marked with ▲ may not be available in the near future. Contact Sharp sales personnel for details before use.

Characteristics Diagrams

TR,T series



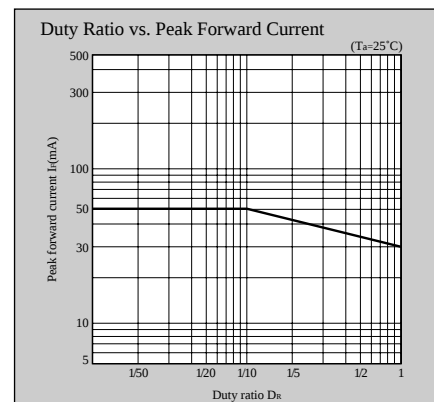
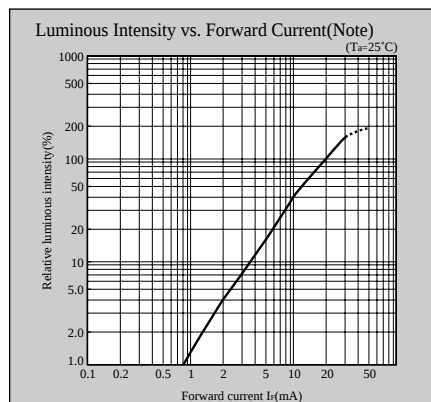
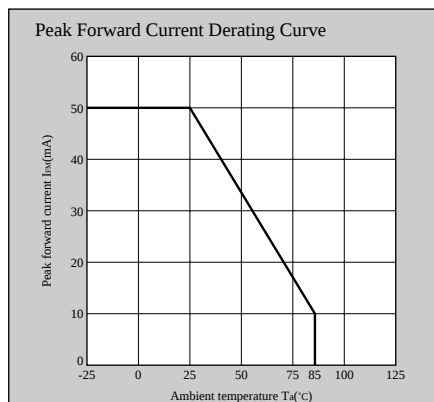
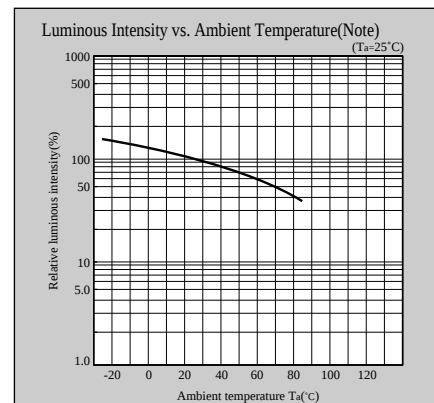
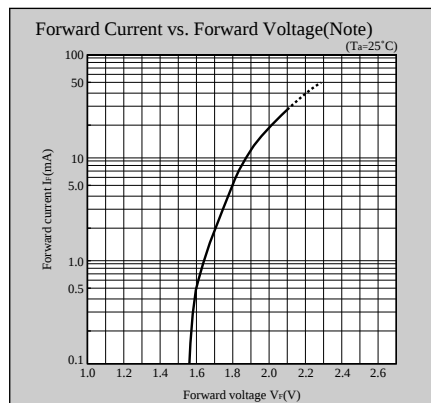
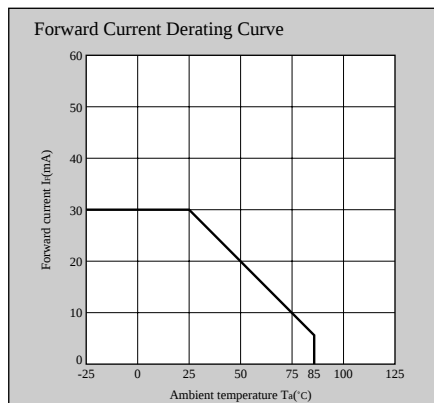
PR,P series



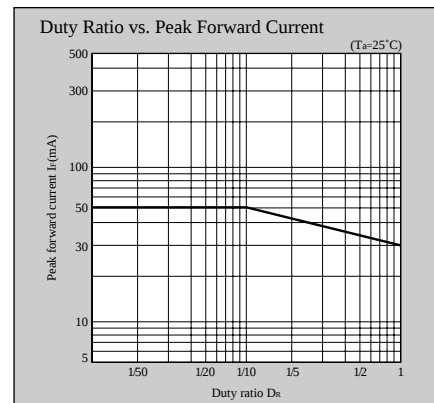
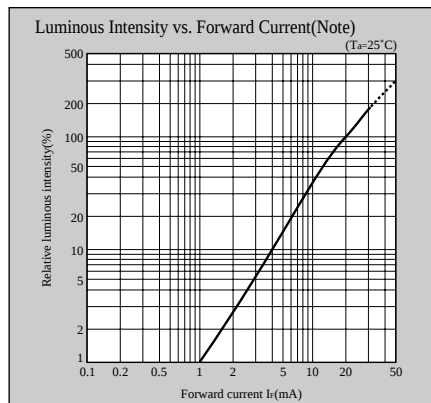
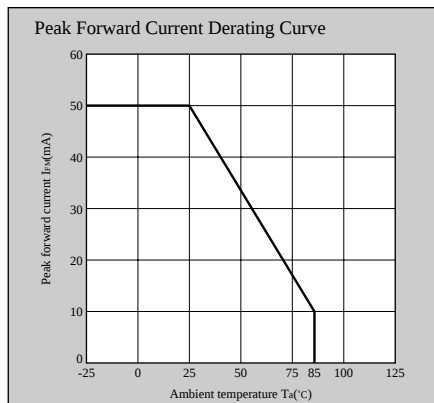
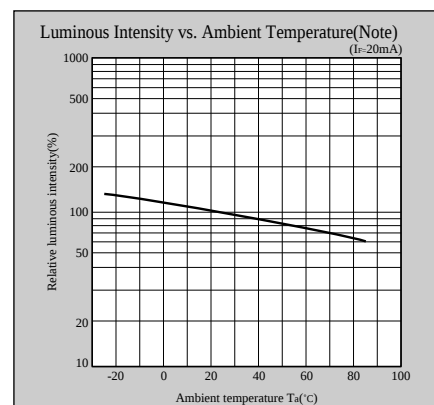
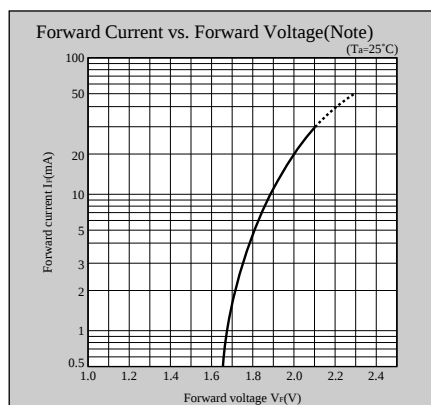
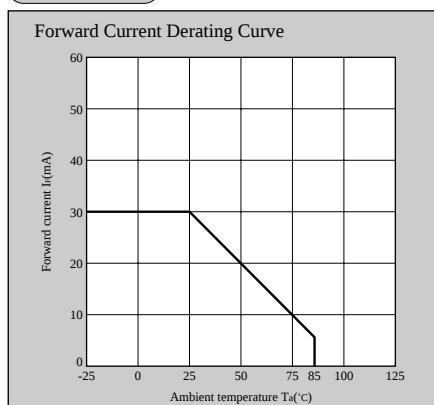
Note) Characteristics shown in diagrams are typical values. (not assurance value)

Characteristics Diagrams

HD,D series



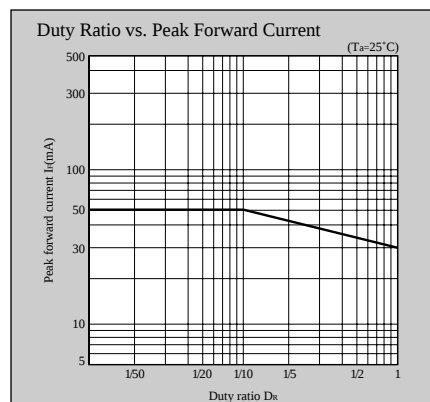
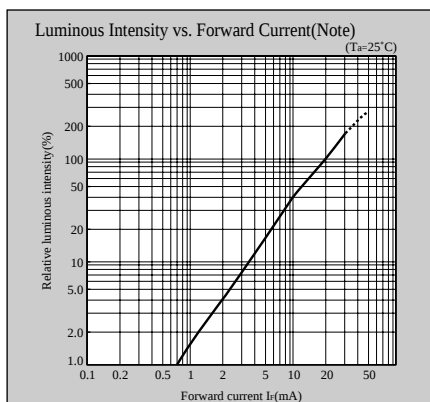
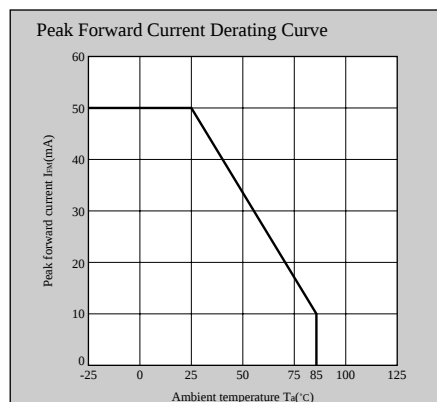
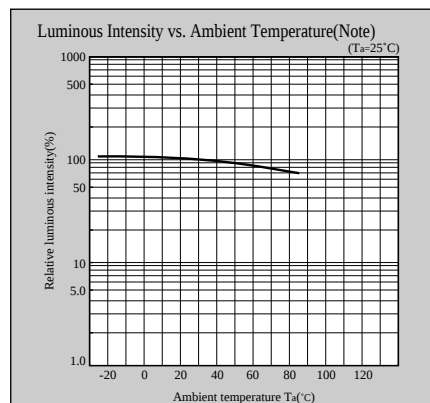
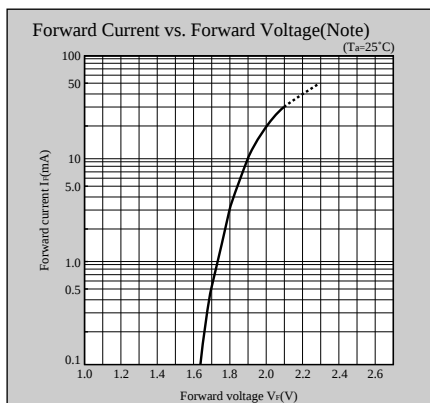
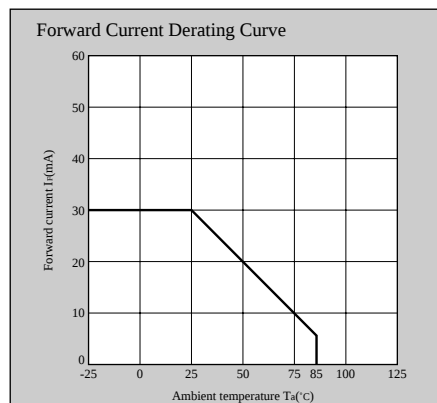
HS,S series



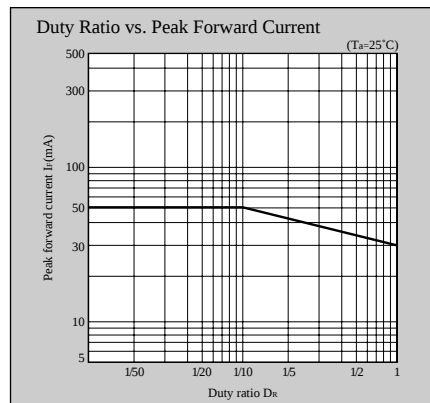
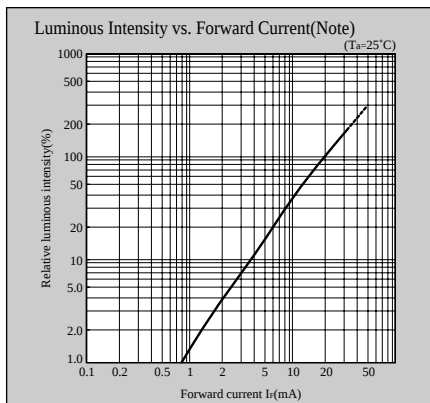
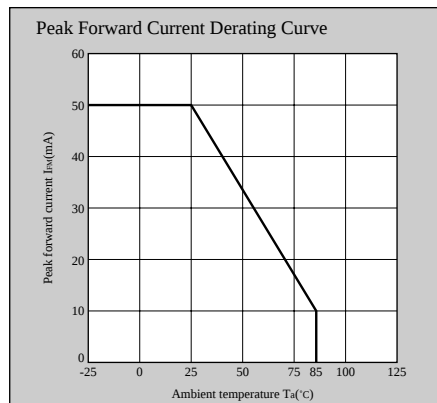
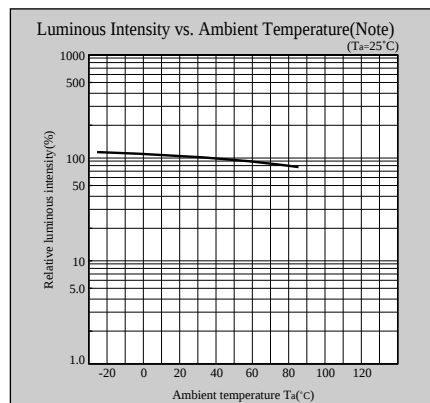
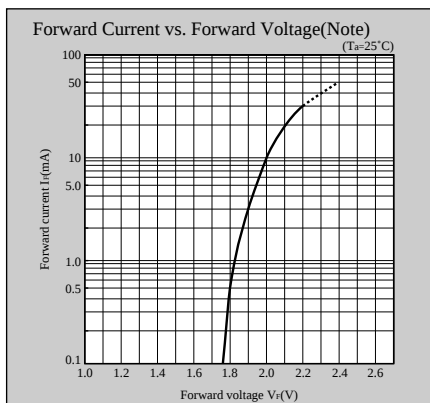
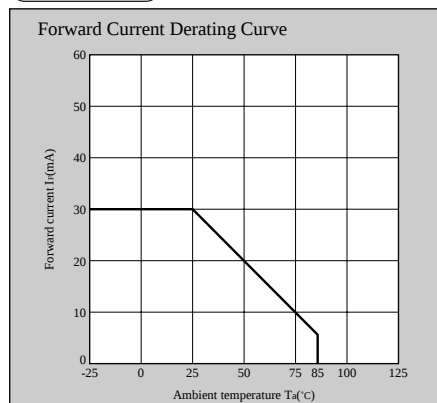
Note) Characteristics shown in diagrams are typical values. (not assurance value)

Characteristics Diagrams

HY,H series



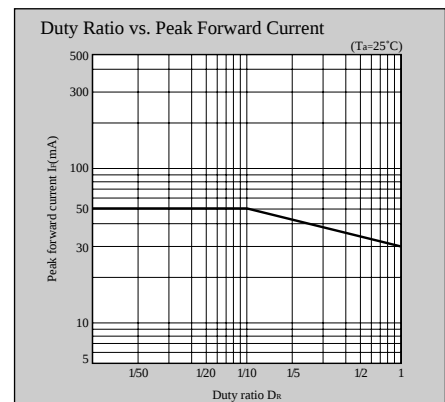
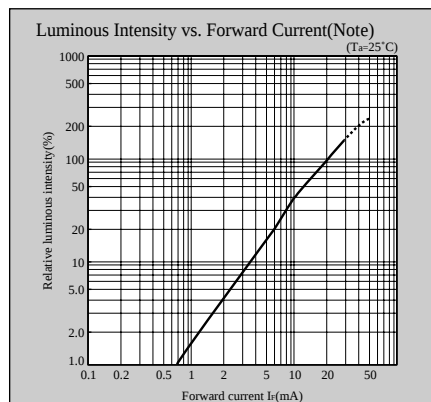
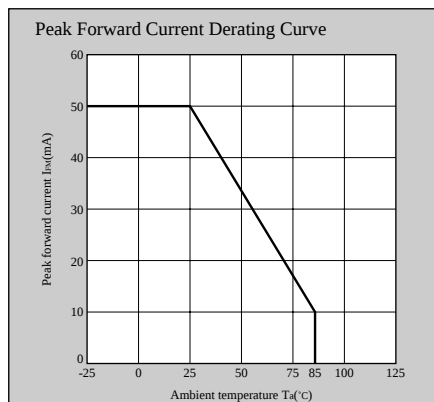
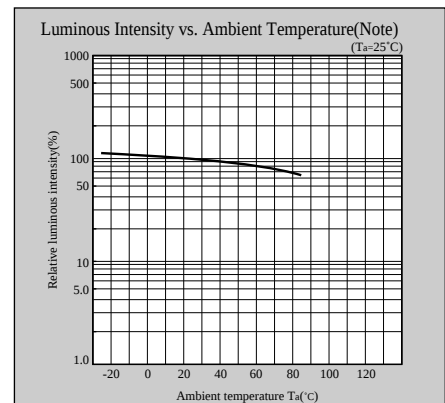
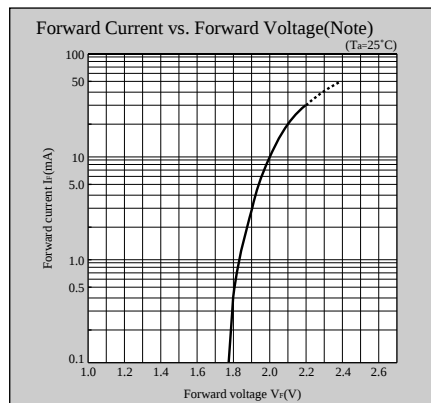
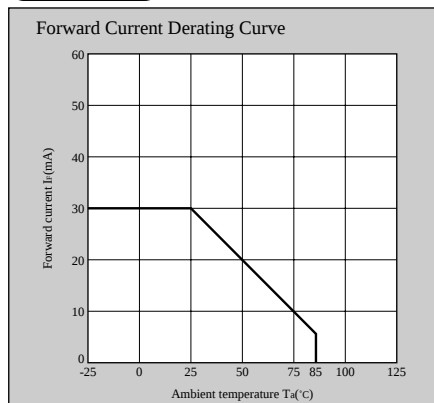
EG,E series



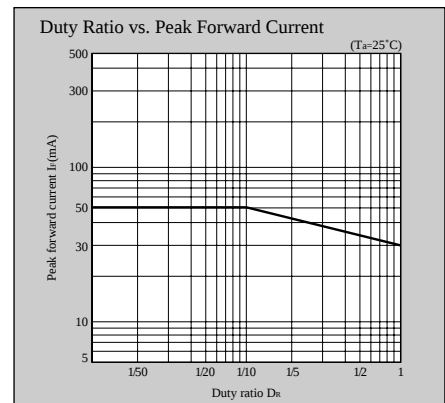
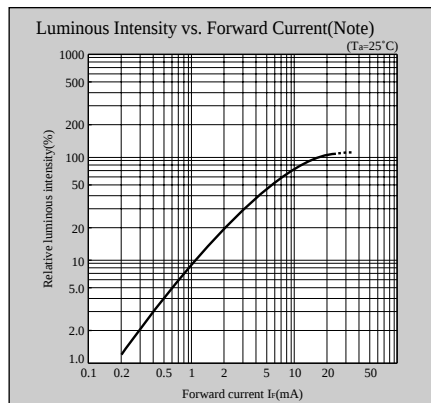
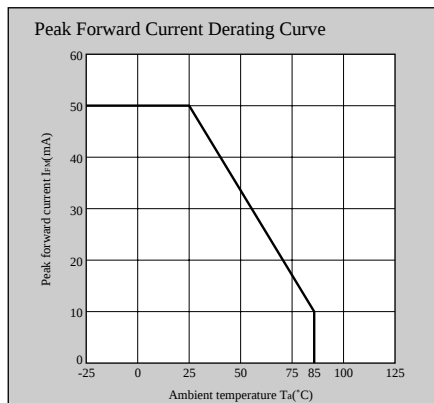
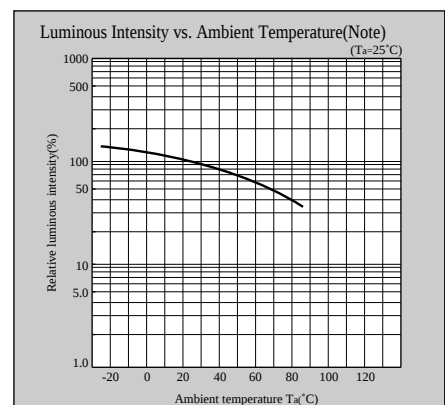
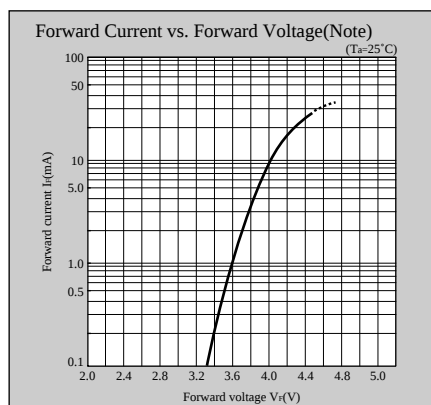
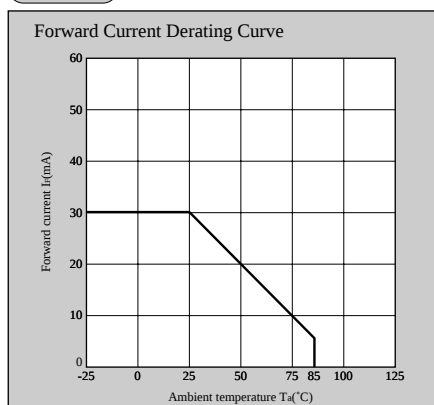
Note) Characteristics shown in diagrams are typical values. (not assurance value)

Characteristics Diagrams

KG,K series



B series



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

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