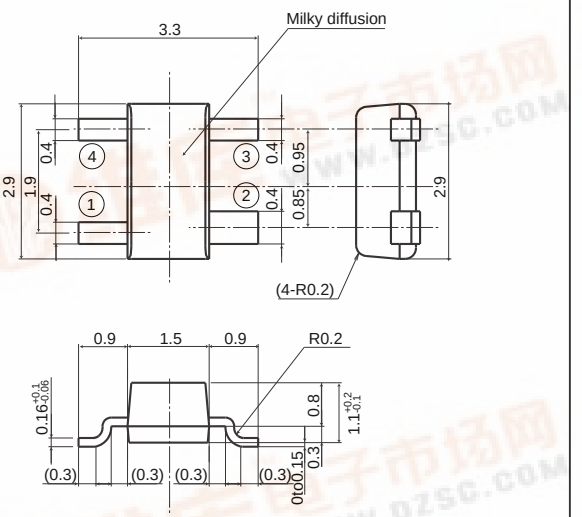
查询LT1ET53A供应商 捷多邦，专业PCB打样工厂，24小时加急出货

LT1❑❑53A series

3.3×2.9mm, 1.1mm Thickness, Milky Diffusion, Dichromatic Chip LED Devices

■ Outline Dimensions

(Unit : mm)



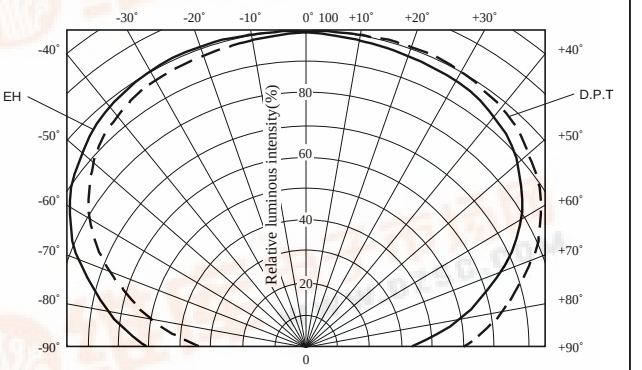
Pin connections

Pin \ series	ED/EP	HP	ET
1 Anode	Red	Red	Red (HL)
2 Cathode			
3 Cathode	Yellow-green	Yellow	Yellow-green
4 Anode			

Unspecified tolerance:±0.2

■ Radiation Diagram

(Ta=25˚C)



■ Absolute Maximum Ratings*

(Ta=25˚C)

Model No.	Radiation color	Radiation material	Power dissipation P (mW)	Forward current IF (mA)	Peak forward current IFM*1 (mA)	Derating factor (mA/˚C) DC	Derating factor (mA/˚C) Pulse	Reverse voltage VR (V)	Operating temperature Topr (˚C)	Storage temperature Tstg (˚C)	Soldering temperature Tsol*2 (˚C)
LT1ET53A	Yellow-green	GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	350
	Red(High-luminosity)	GaAlAs on GaAs	66	30	50	0.40	0.67	5	-25 to +85	-25 to +100	350
LT1ED53A	Yellow-green	GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	350
	Red	GaAsP on GaP	85	30	50	0.40	0.67	5	-25 to +85	-25 to +100	350
LT1EP53A	Yellow-green	GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	350
	Red	GaP	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100	350
LT1HP53A	Yellow	GaAsP on GaP	50	20	50	0.27	0.67	5	-25 to +85	-25 to +100	350
	Red	GaP	23	10	50	0.13	0.67	5	-25 to +85	-25 to +100	350

* The value is specified under the condition that either color is lightened separately. When the both diodes are lightened simultaneously, the power dissipation of each diode should be less than the half of the value specified in this table.

*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.	Radiation color	Forward voltage VF(V) TYP	Forward voltage VF(V) MAX	Peak emission wavelength λp(nm) TYP	Peak emission wavelength IF (mA)	Luminous intensity Iv(mcd) TYP	Luminous intensity IF (mA)	Spectrum radiation bandwidth Δλ(nm) TYP	Spectrum radiation bandwidth IF (mA)	Reverse current IR(μA) MAX	Reverse current VR (V)	Terminal capacitance Ct(pF) TYP	Terminal capacitance (MHz)	Page for characteristics diagrams
Milky diffusion	LT1ET53A	Yellow-green	1.95	2.5	565	10	3.6	10	30	10	10	4	35	1	→
		Red(High-luminosity)	1.75	2.2	660	20	6.5	20	20	20	10	4	30	1	→
	LT1ED53A	Yellow-green	1.95	2.5	565	10	3.6	10	30	10	10	4	35	1	→
		Red	2.0	2.8	635	20	5.3	20	35	20	10	4	20	1	→
	LT1EP53A	Yellow-green	1.95	2.5	565	10	3.6	10	30	10	10	4	35	1	→
		Red	1.9	2.3	695	5	1.1	5	100	5	10	4	55	1	→
	LT1HP53A	Yellow	1.9	2.5	585	10	3.1	10	30	10	10	4	35	1	→
		Red	1.9	2.3	695	5	1.1	5	100	5	10	4	55	1	→

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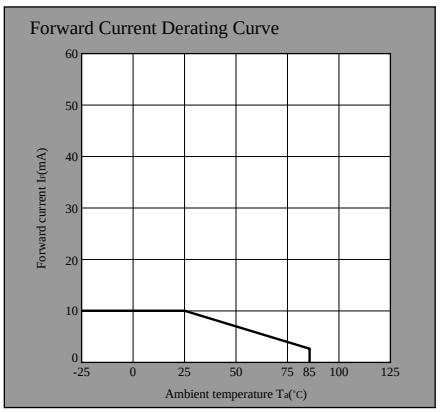
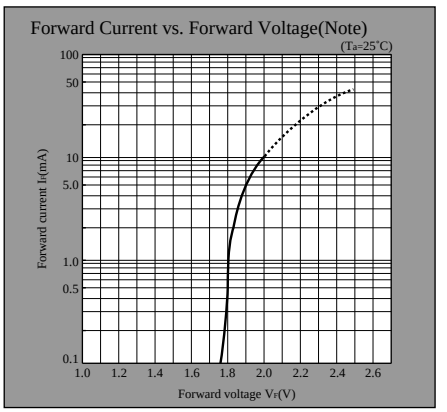
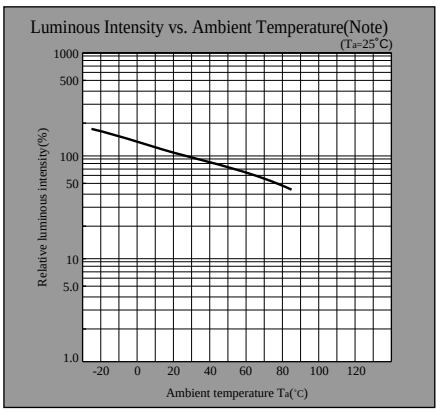
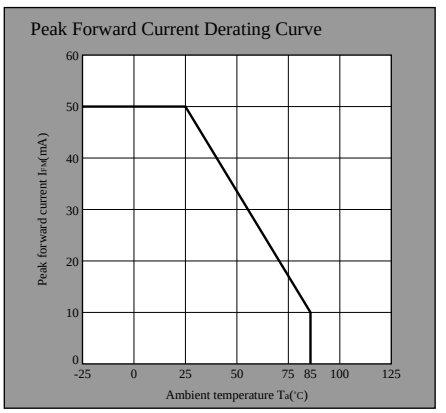
LED Lamp Characteristics Diagrams

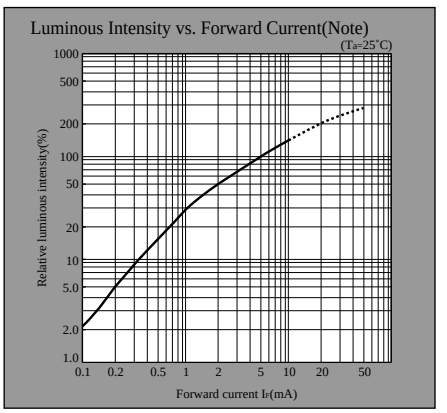
PR series

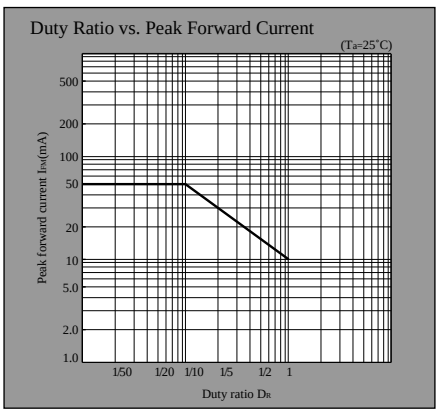




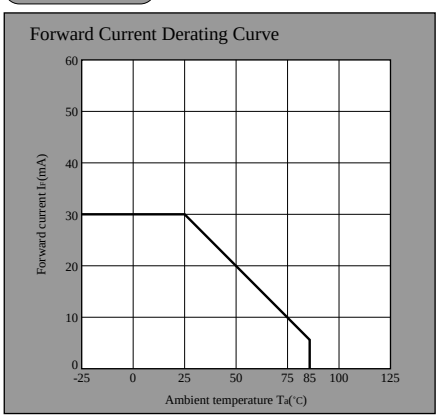


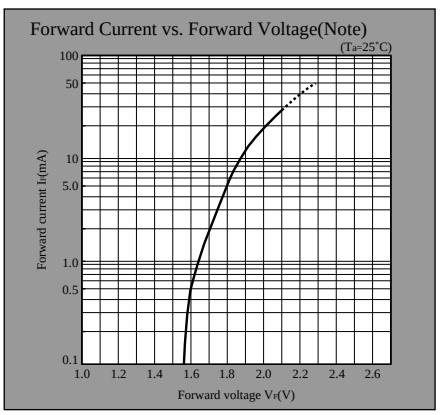


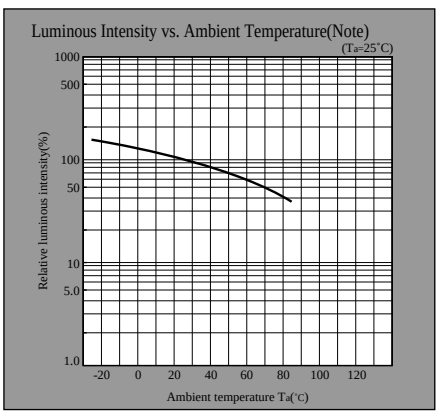


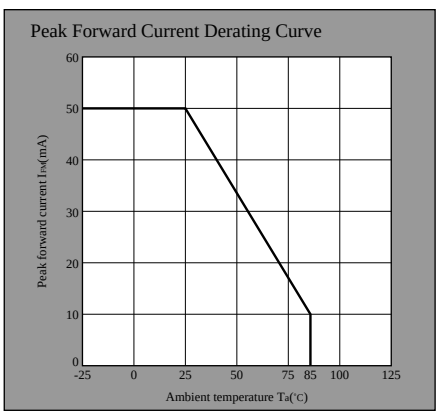


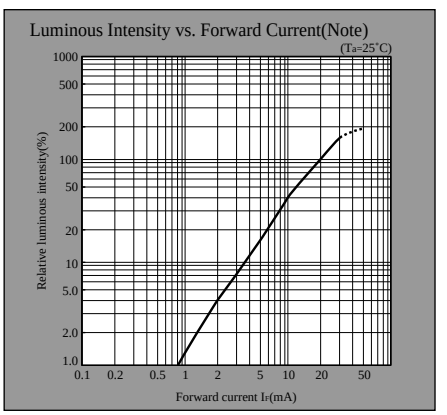
HD series

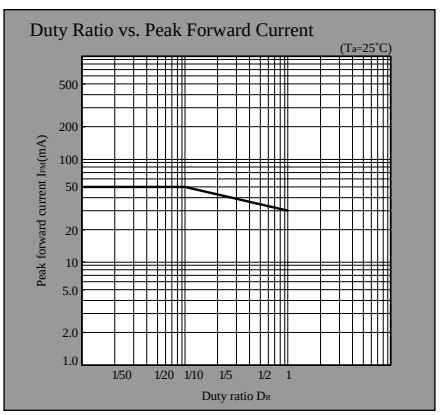












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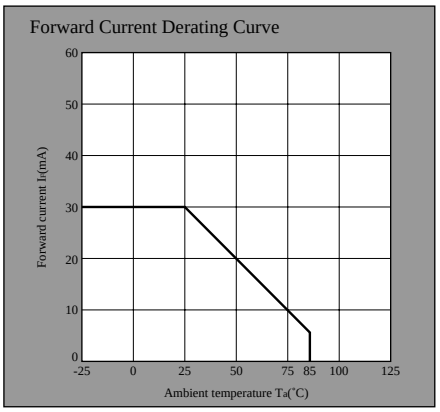
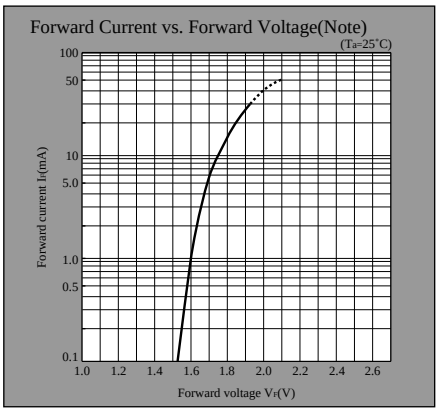
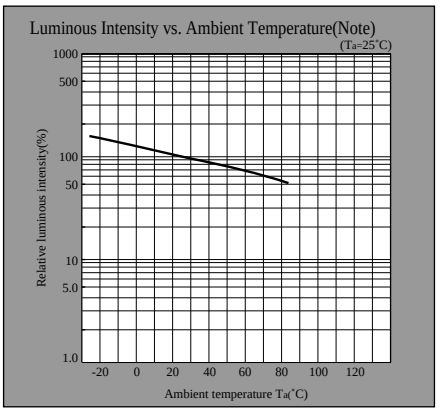
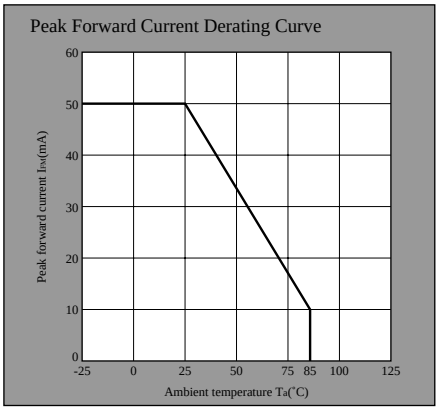
LED Lamp Characteristics Diagrams

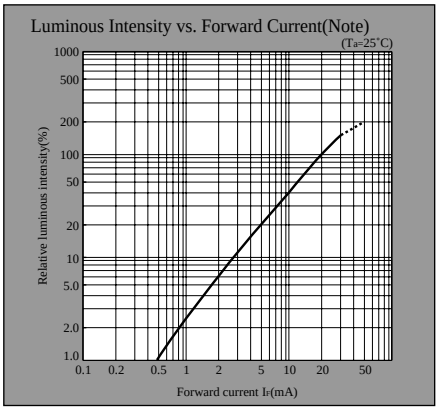
UR series

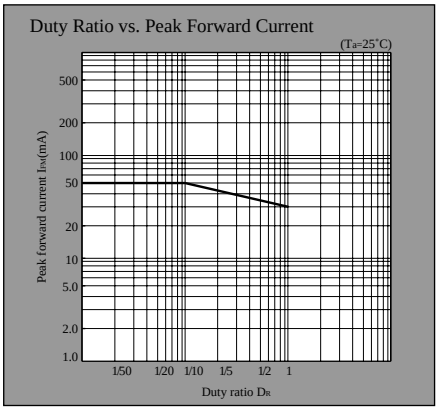




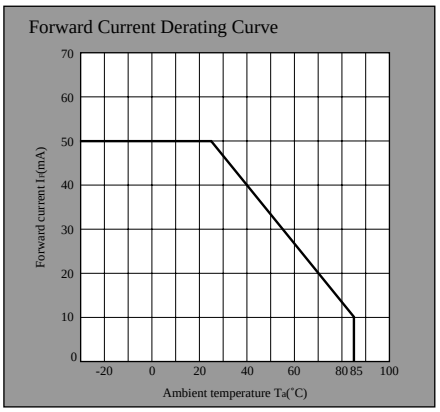


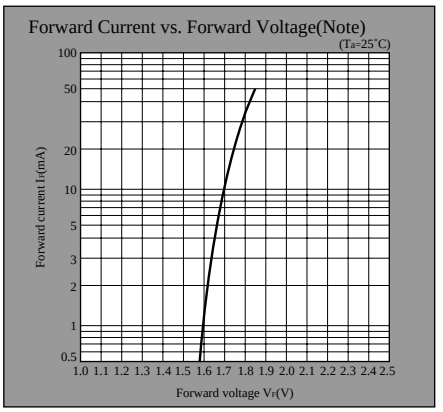


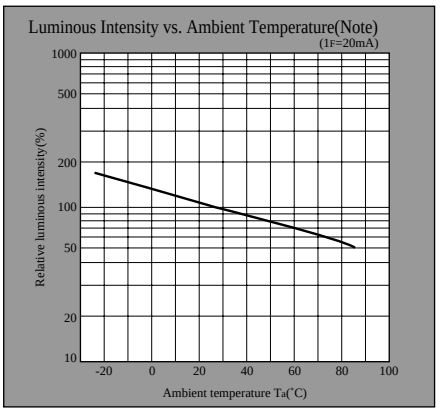


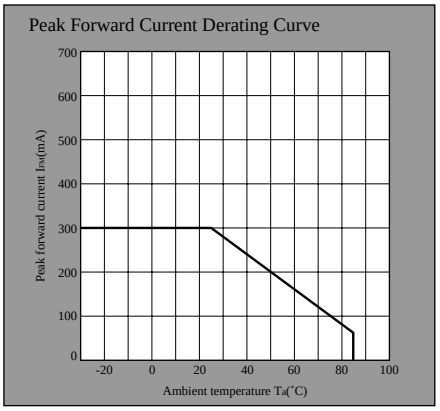


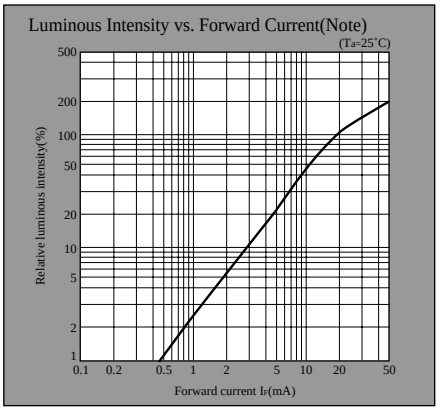
TR series

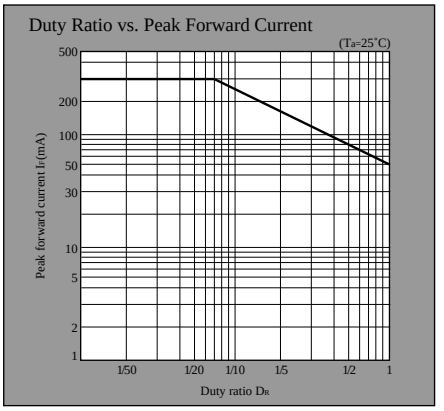












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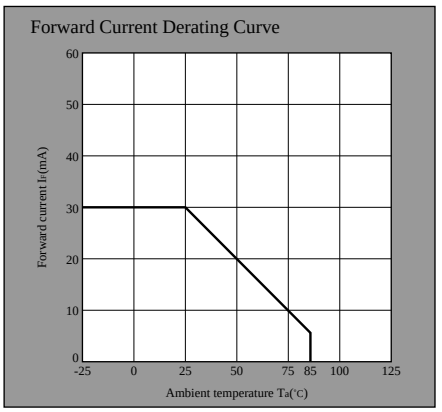
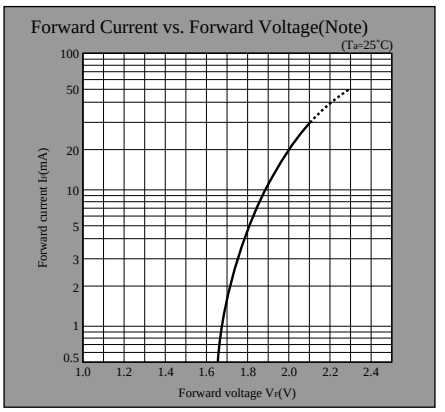
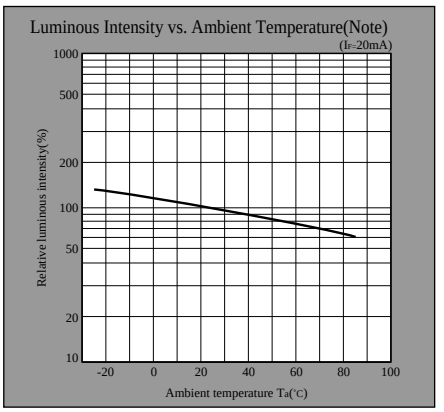
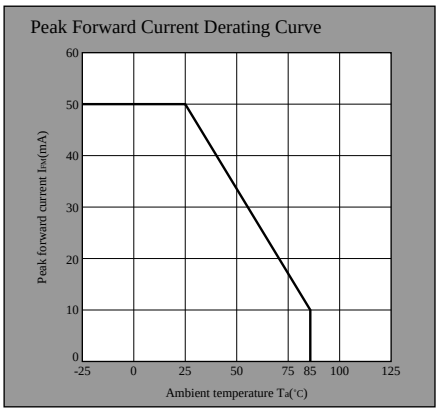
LED Lamp Characteristics Diagrams

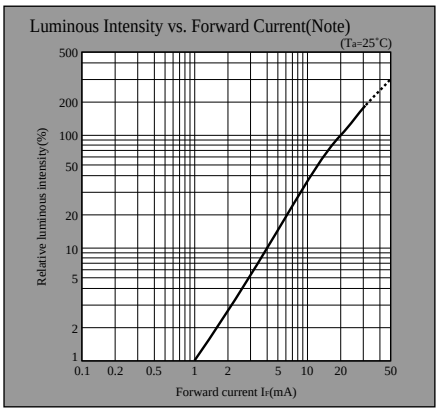
HS series

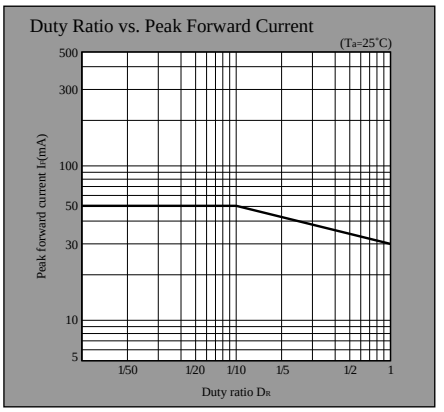












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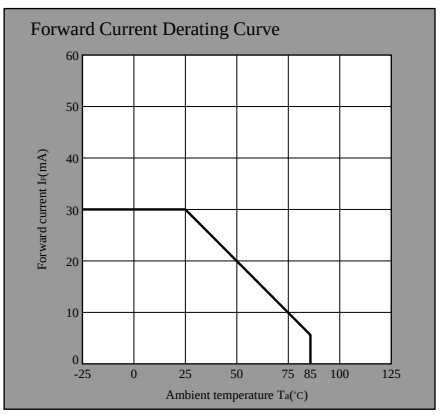
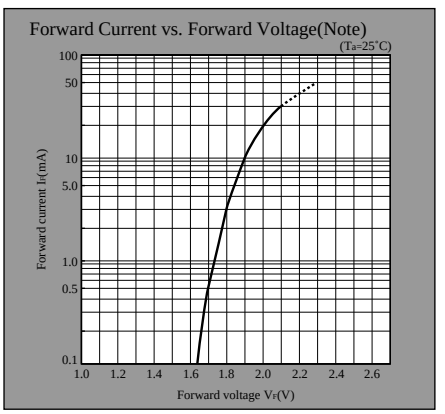
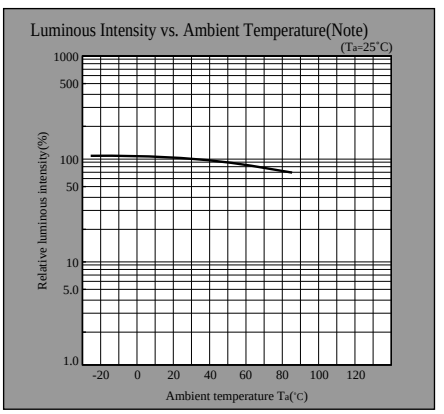
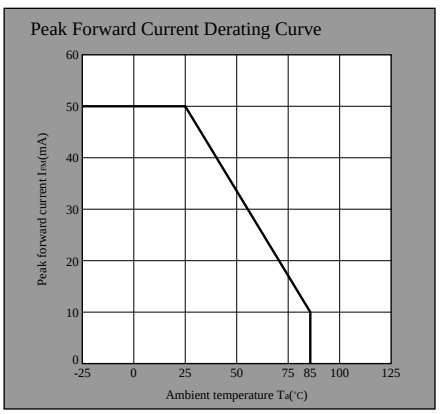
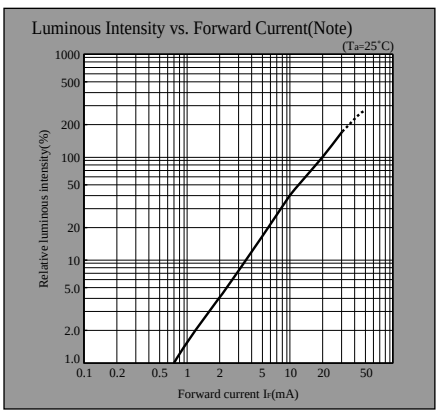
HY series

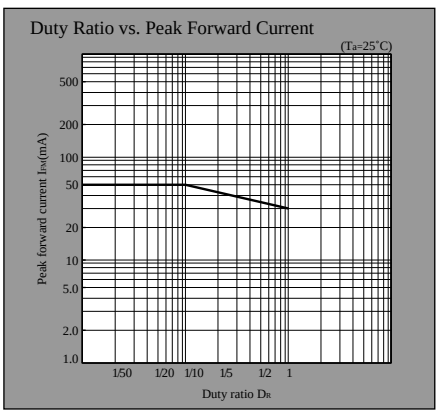












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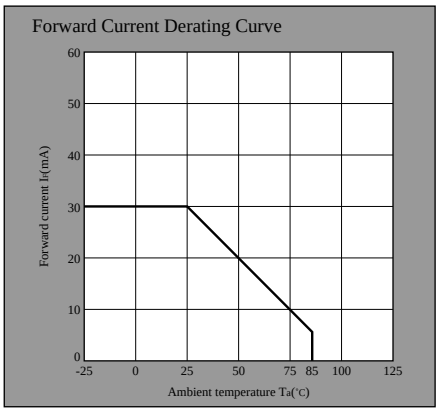
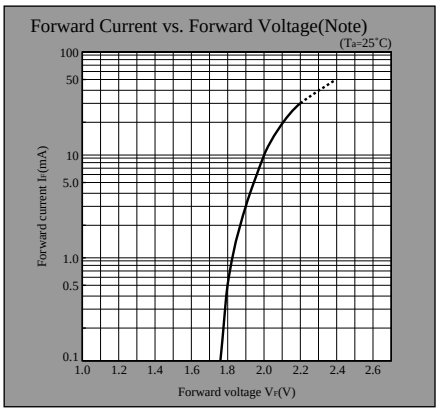
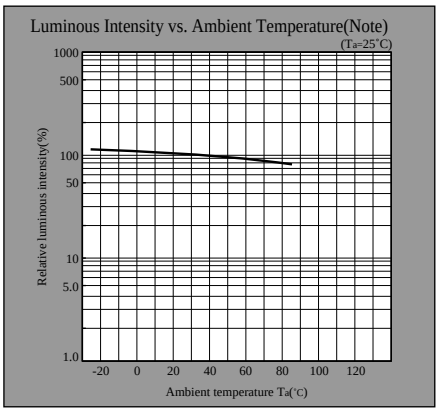
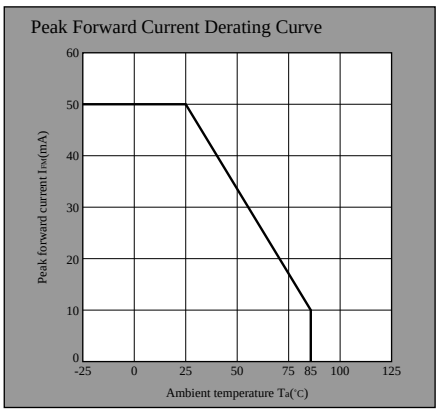
LED Lamp Characteristics Diagrams

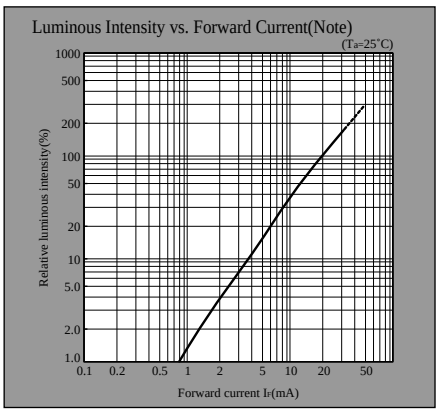
EG series

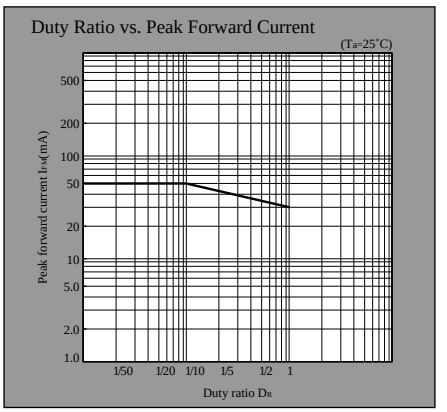












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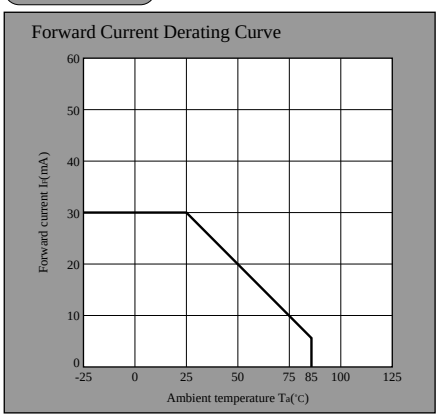
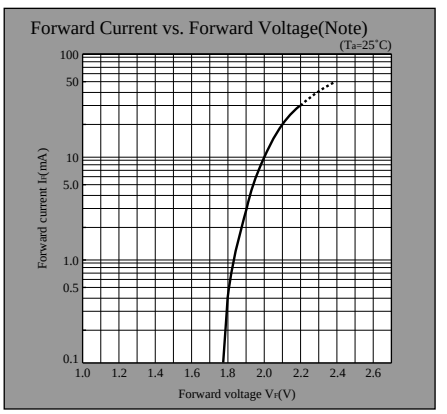
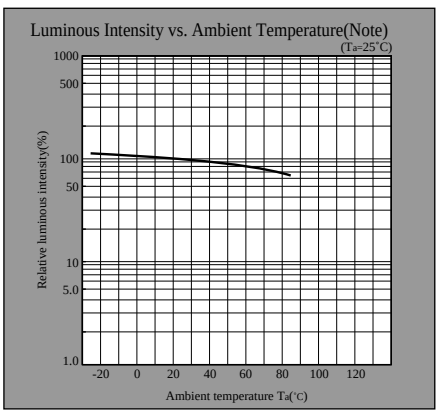
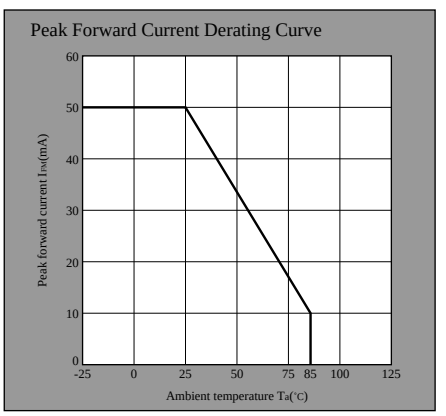
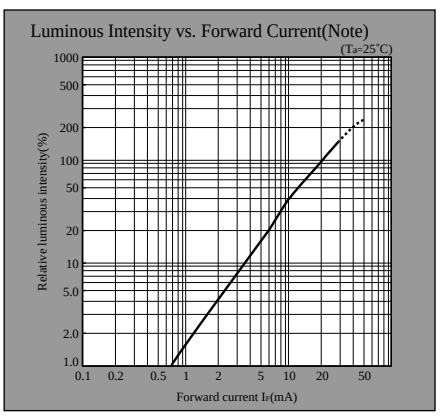
KG series

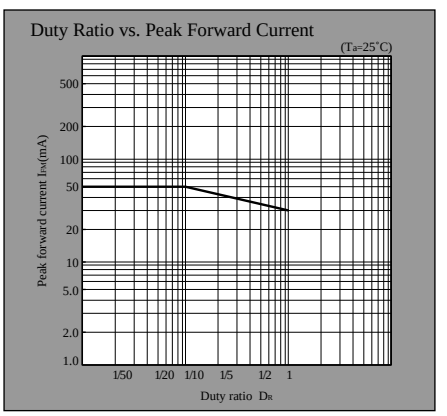












Note)Characteristics shown in diagrams are typical values. (not assurance value)

(Notice) In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.