

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Red	Orange	Yellow	Green	Unit
		LBP-602VA2 / VK2	LBP-602DA2 / DK2	LB-602YA2 / YK2	LBP-602MA2 / MK2	
Power dissipation	P _D	896	896	896	896	mW
Power dissipation	P _D / seg	56	56	56	56	mW
Forward current	I _F	20	20	20	20	mA
Peak forward current	I _{FP}	60 *	60 *	60 *	60 *	mA
Reverse voltage	V _R	5	5	5	5	V
Operating temperature	Topr	-25 to +75				°C
Storage temperature	Tstg	-30 to +85				°C

* Pulse width 1ms Duty 1 / 5

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Red		Orange		Yellow		Green		Unit
			Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	
Forward voltage	V _F	I _F =10mA	1.9	2.8	1.9	2.8	1.9	2.8	1.9	2.8	V
Reverse current	I _R	V _R =3V	–	100	–	100	–	100	–	100	μA
Peak wavelength	λ _P	I _F =10mA	650	–	605 *	–	590	–	572	–	nm
Spectral line half width	Δλ	I _F =10mA	20	–	20 *	–	20	–	20	–	nm

© The products are not radiations resistant.

●Luminous intensity

Color	λ _P (nm)	Type	Min.	Typ.	Unit
Red	650	LBP-602VA2	14	36	mcd
		LBP-602VK2			
Orange	605	LBP-602DA2	56	250	mcd
		LBP-602DK2			
Yellow	590	LBP-602YA2	90	450	mcd
		LBP-602YK2			
Green	572	LBP-602MA2	36	100	mcd
		LBP-602MK2			

© A condition of measurement is I_F=10mA.

●Electrical and optical characteristic curve

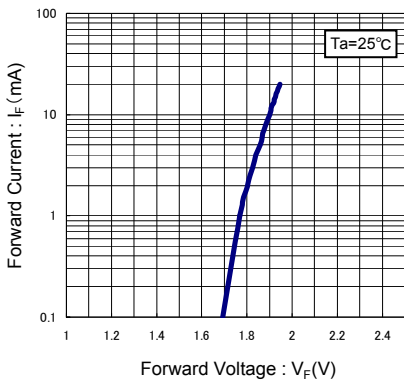


Fig.1 Forward Current - Forward Voltage

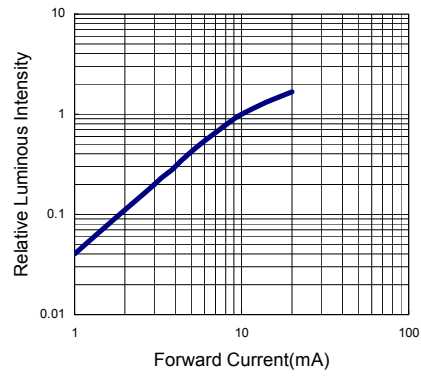


Fig.2 Relative Luminous Intensity - Forward Current

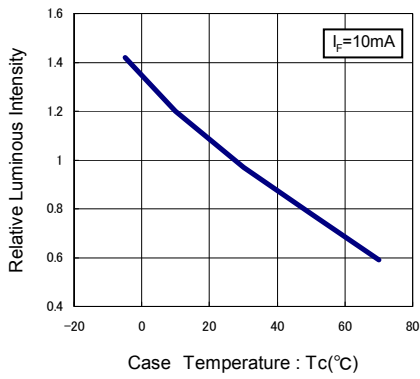


Fig.3 Relative Luminous Intensity - Case Temperature(°C)

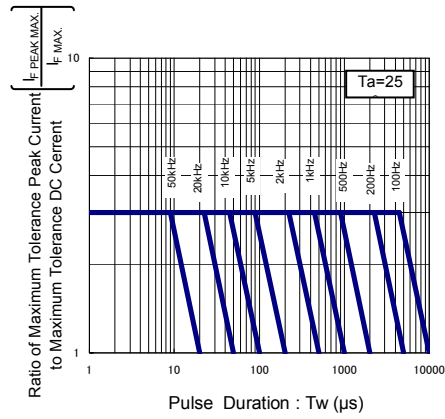


Fig.4 Ratio of Maximum Tolerable Peak Current- Pulse Duration

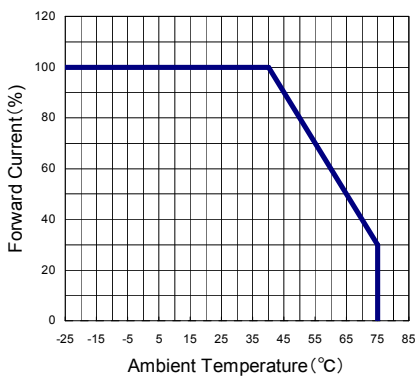


Fig.5 Derating

Notes

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