



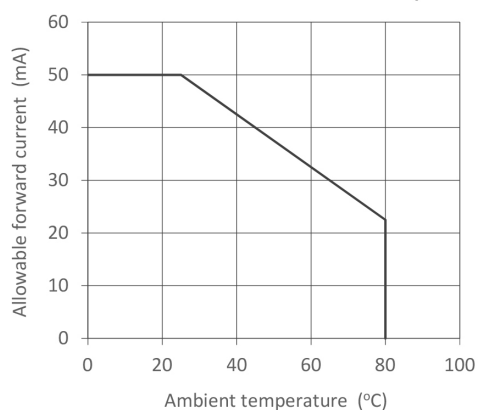
## Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	$V_R$	6	V	-
Forward current	$I_F$	50	mA	$T_a=25$
Peak forward current	$I_{FP}$	0.5	A	Pulse width=100 $\mu$ s Duty ratio=0.1%
Power dissipation	$P_D$	85	mW	$T_a=25$
Operating temperature	$T_{opr}$	-20 to +80		Avoid dew condensation
Storage temperature	$T_{stg}$	-30 to +100		Avoid dew condensation

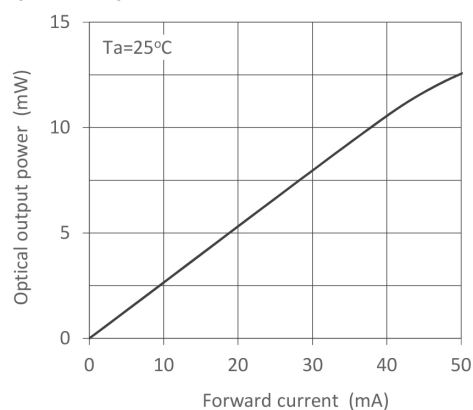
Electrical and Optical characteristics ( $T_a=25$  unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Current	$I_R$	-	-	10	$\mu$ A	$V_R=6V$
Forward voltage	$V_F$	-	1.35	1.6	V	$I_F=20mA$
Optical output power	$P_O$	-	6.0	-	mW	$I_F=20mA$
Peak wavelength	$\lambda_p$	-	870	-	nm	$I_F=20mA$
Spectral width		-	40	-	nm	$I_F=20mA$
Half angle	2	-	32	-	deg.	$I_F=20mA$

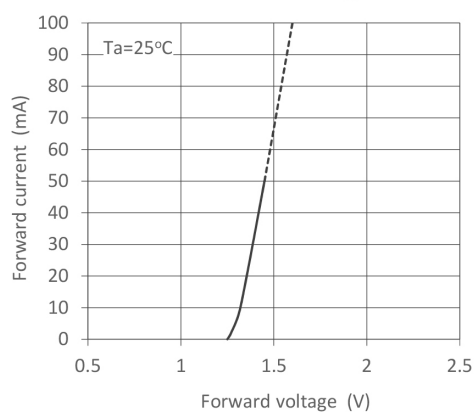
Allowable Forward Current-Ambient Temperature



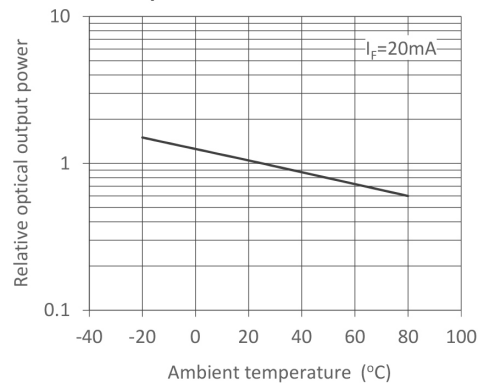
Optical Output Power - Forward Current



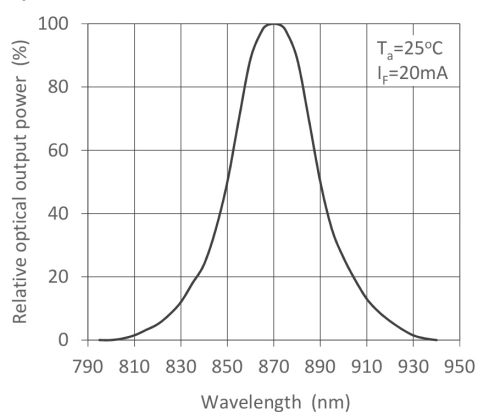
Forward Current - Forward Voltage



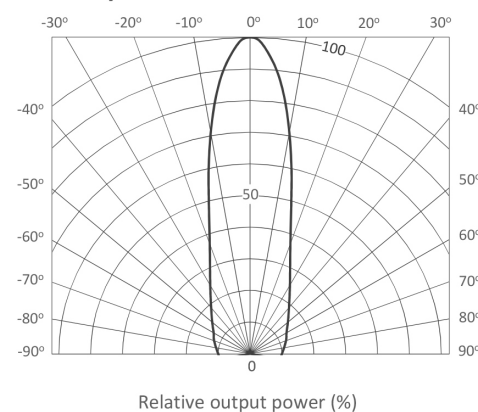
Relative Optical Output Power - Ambient Temperature



Spectral Distribution



Directivity



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