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LD808-2000-3
LD808-3000-3

●Specifications:

Wavelength: 808nm

Power: 2W, 3W CW

Package: C-Mount, TO3

●Electrical and Optical Characteristics(T_c=25℃):

Parameter		Symbols	LD808-2000	LD808-3000	Unit
Lasing Wavelength		λ_p	808±5		nm
Power		P_o	2	3	W
Threshold Current		I_{th}	≤0.8	≤1	A
Operating Current		I_{op}	≤2.6	≤3.5	A
Operating voltage		V_{op}	≤2.2		V
Emission Area		-	150x1		μm^2
Beam Divergence [1)]	Parallel	$\theta_{//}$	12		deg.
	Perpendicular	$\theta_{\perp}$	12		deg.
Slope Efficiency		η	≤1.1		mW/mA
Series Resistance		R_d	≤0.25		Ω
Polarization Direction			TE		

1) Full angle at half Maximum

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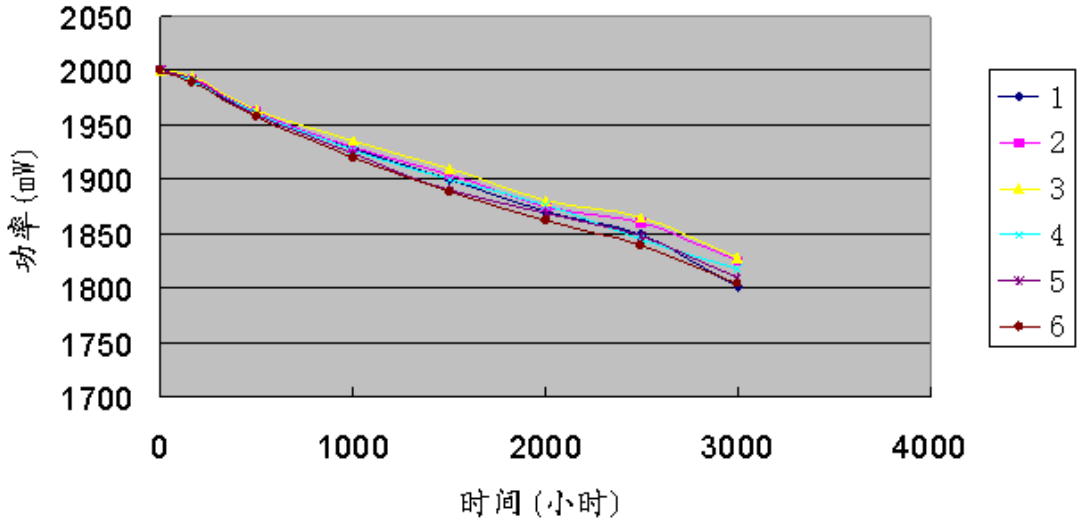
●Lifetime



●Lifetime Reliabilty data

Tested sample description	random sample from bulk production
Test condition:	
Amount of tested laserdiodes	20
Mean time of operation	5000
Total time of operation	96000
Amount of failed units and description of failure (random or degradation)	$1.67*10^4$ Fit Random
Operation conditions during test: Power Temperature of chip base	 CW 2.4A (constant current) （25±3）°C
Lifetest analysis data:	
Mean time to failure (MTTF) for random failure	18045hrs(α=90%)
B10 for random failure	4000hrs
Mean time to failure (MTTF) for degradation (extrapolate time to 20% power drop)	14285hrs
B10 for degradation (extrapolate time to 20% power drop)	6000hrs

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