

BLUE-VIOLET LASER DIODE

DL-LS5017

Tentative

SANYO

Ver.3 Aug. 2005

Features

- Short wavelength : 405 nm (Typ.)
- Light Output: 60mW CW
- Low threshold current : $I_{th} = 40$ mA (Typ.)
- Package : $\phi 5.6$ mm

Applications

Industrial Use

Absolute Maximum Ratings

(T_c=25°C)

Parameter		Symbol	Ratings	Unit
Light Output	CW	P _o (CW)	65	mW
Reverse Voltage	Laser	V _R	2	V
Operating Temperature		T _{opr}	0 to +50	°C
Storage Temperature		T _{stg}	-40 to +85	°C

Electrical and Optical Characteristics

1) 2)

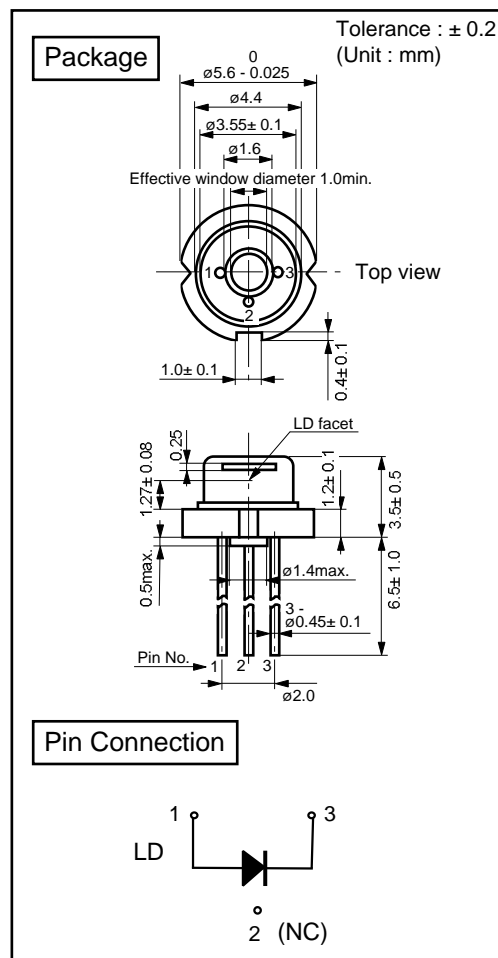
(T_c=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		I _{th}	CW	-	40	60	mA
Operating Current		I _{op}	P _o =60mW	-	90	120	mA
Threshold Voltage		V _{th}	CW	-	4.6	5.6	V
Operating Voltage		V _{op}	P _o =60mW	-	5.2 ⁴⁾	6.2	V
Lasing Wavelength		L _p	P _o =60mW	395	405	415	nm
Beam ³⁾ Divergence	Perpendicular	Q _v	P _o =60mW	16	20	24	°
	Parallel	Q _h	P _o =60mW	6	8	14	°
Off Axis Angle	Perpendicular	dQ _v	-	-3	-	3	°
	Parallel	dQ _h	-	-2	-	2	°
Differential Efficiency		SE	-	0.8	1.2	-	mW/mA

1) Initial values 2) All the above values are evaluated with Tottori Sanyo's measuring apparatus

3) Full angle at half maximum 4) Operating Voltage of this laser is higher than conventional laser(5.5V)

Note : The above product specification are subject to change without notice.



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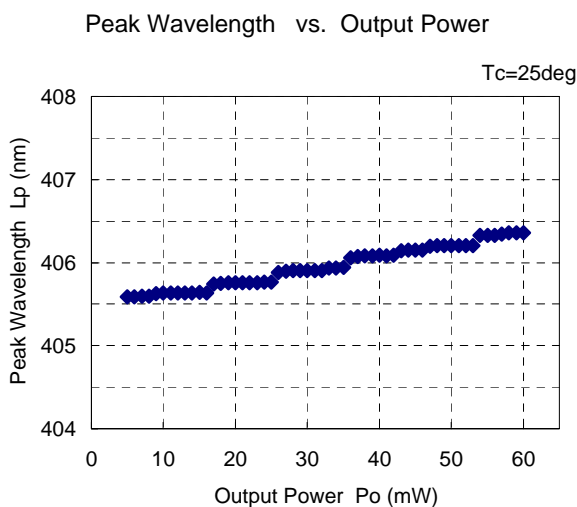
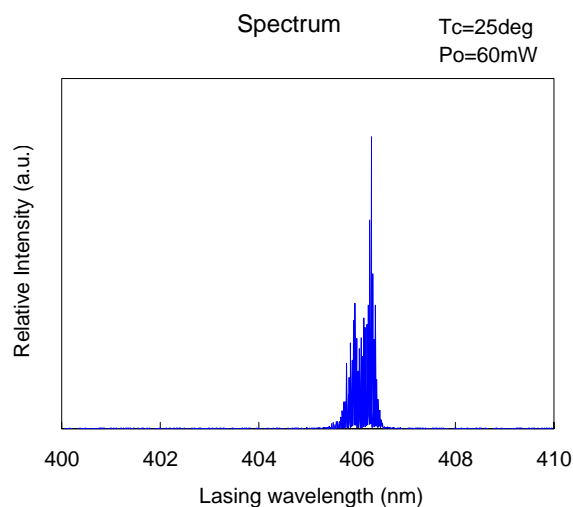
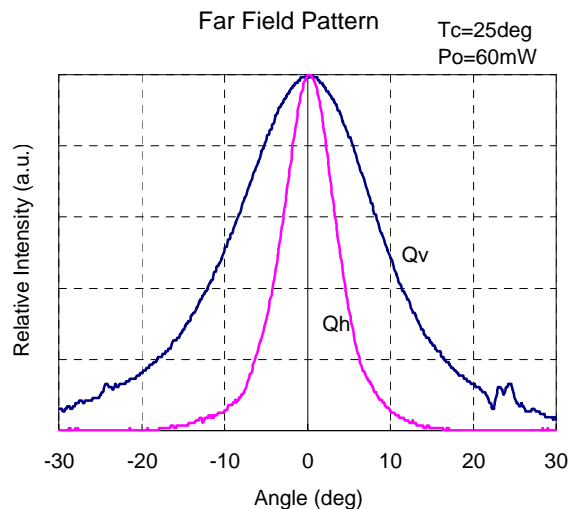
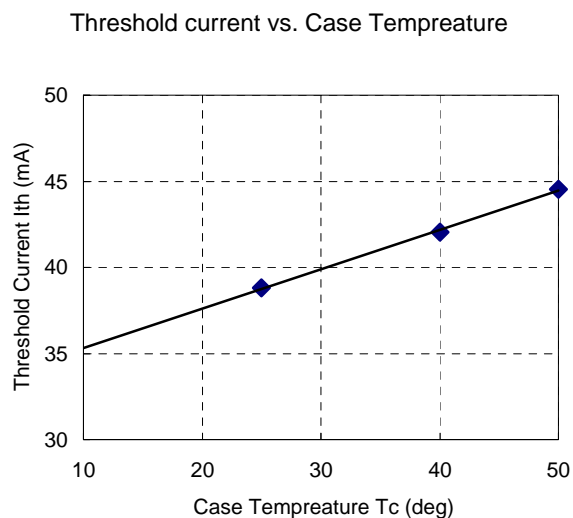
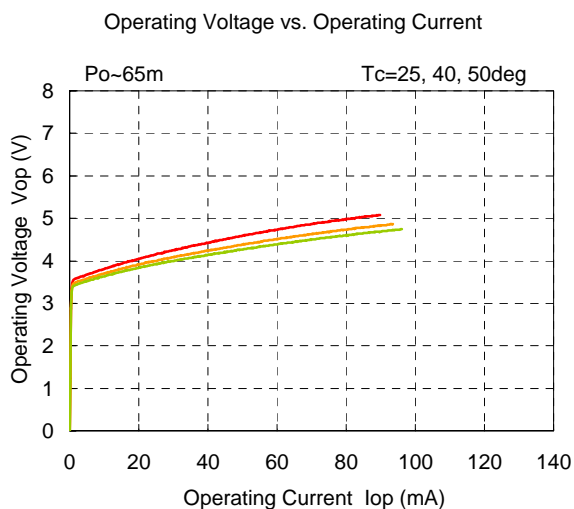
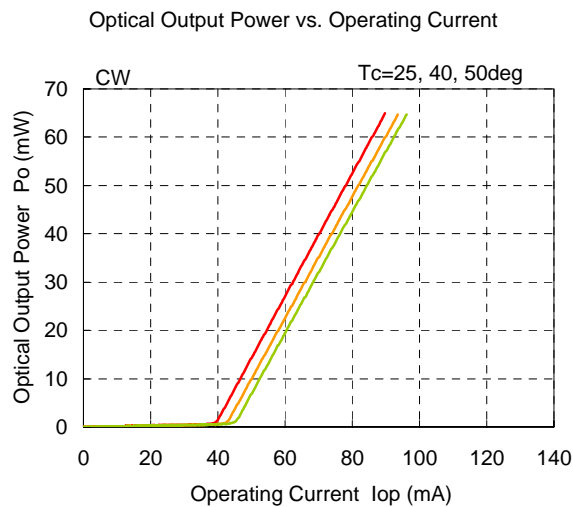
5-318, Tachikawa, Tottori 680-8634 Japan TEL : +81-857-21-2137 FAX : +81-857-21-2161



Characteristics Data for DL-LS5017

Reference Data

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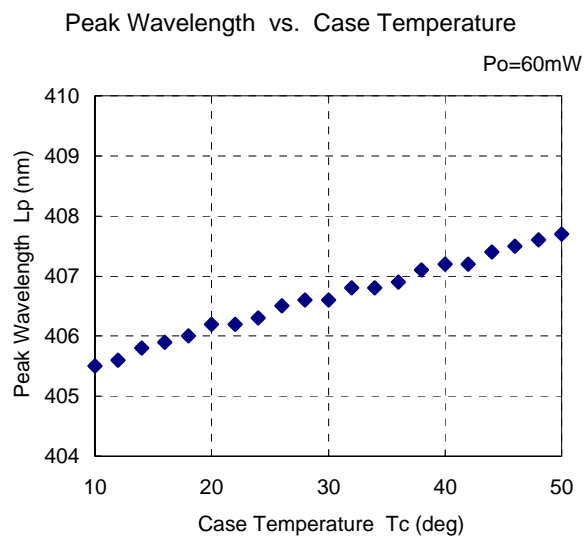
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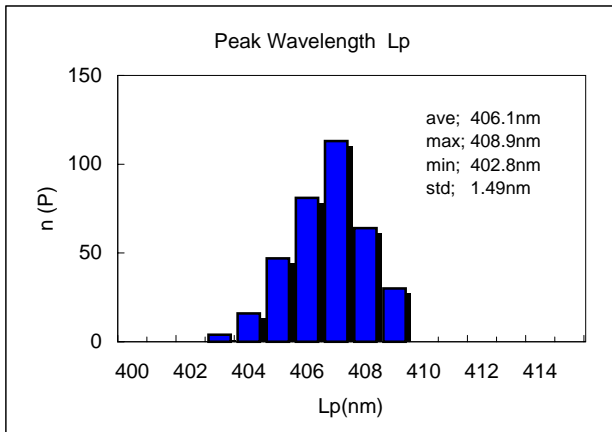
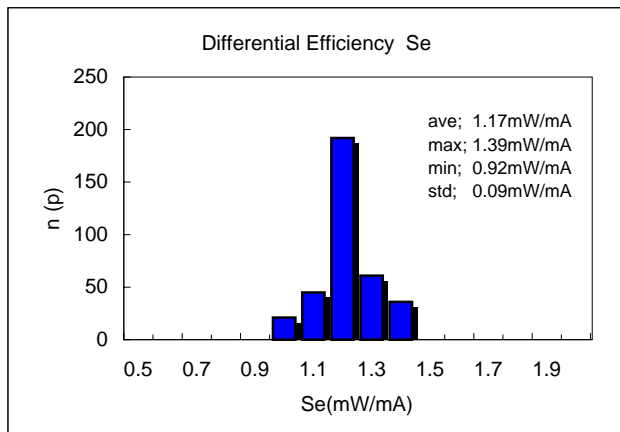
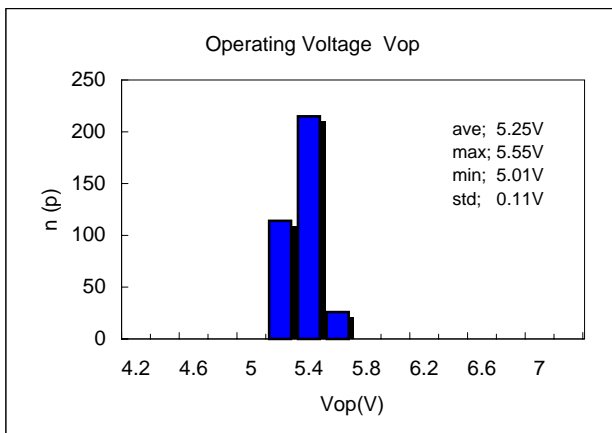
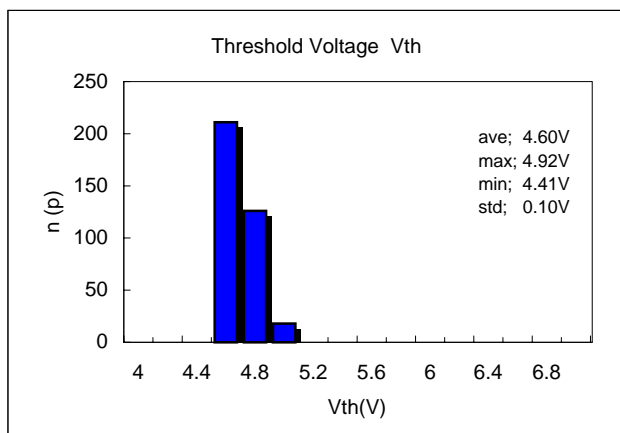
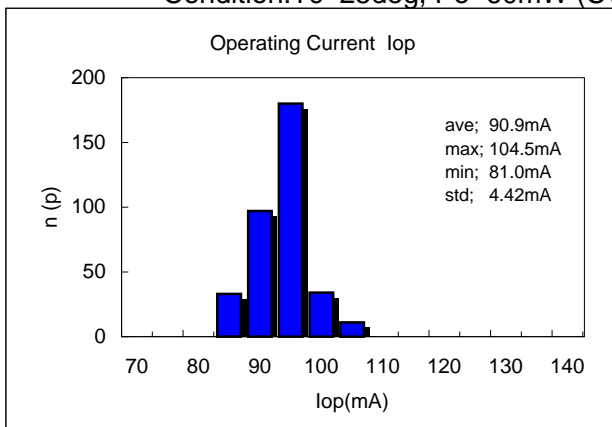
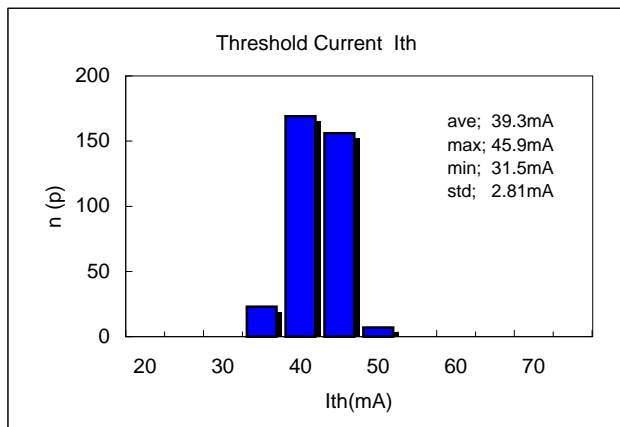
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Distribution Data for DL-LS5017

Reference Data

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n=355p
Condition: Tc=25deg, Po=60mW (CW)



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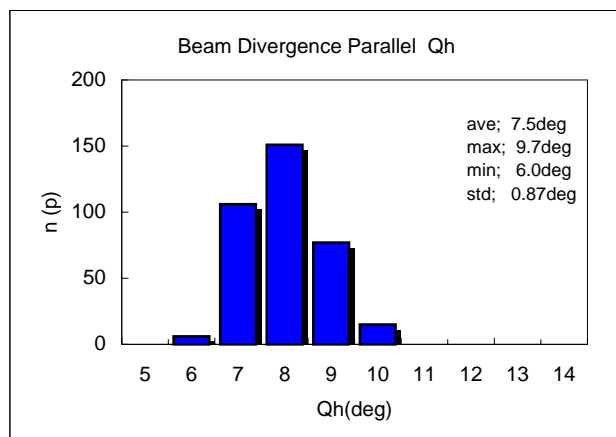
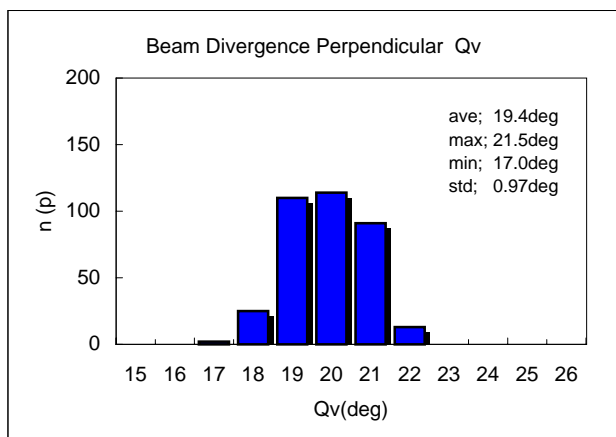
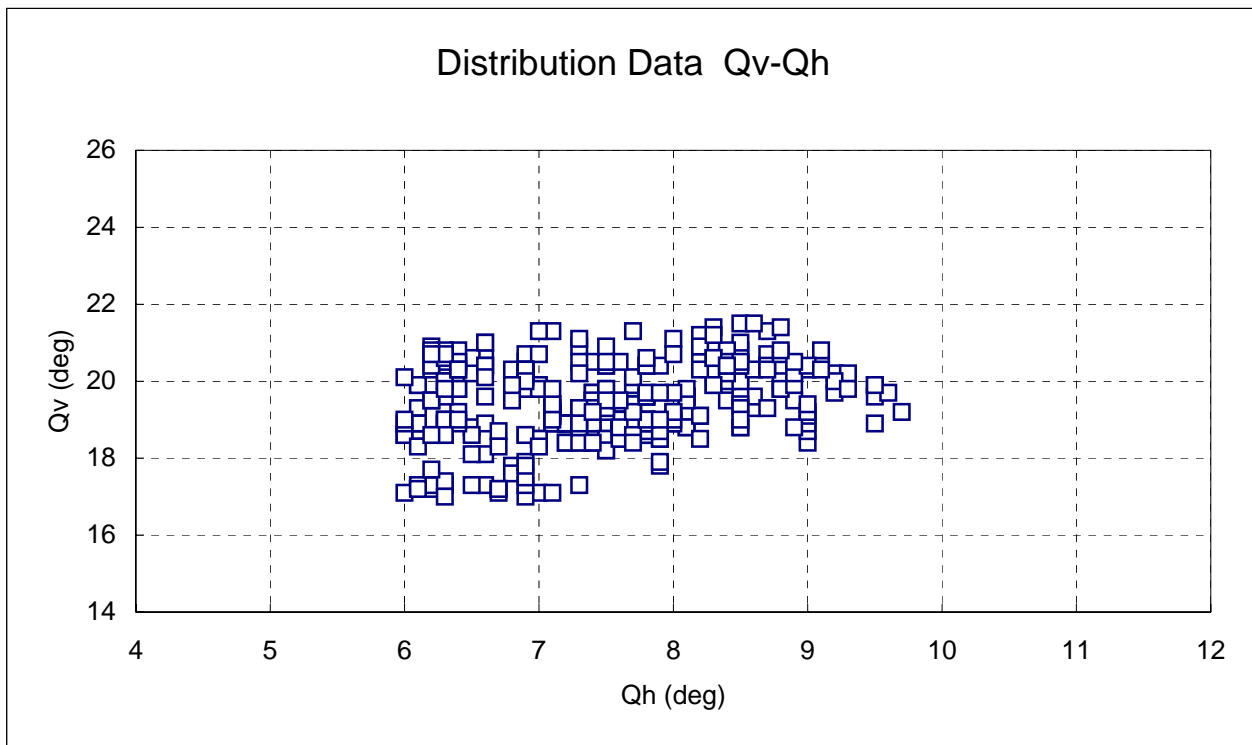
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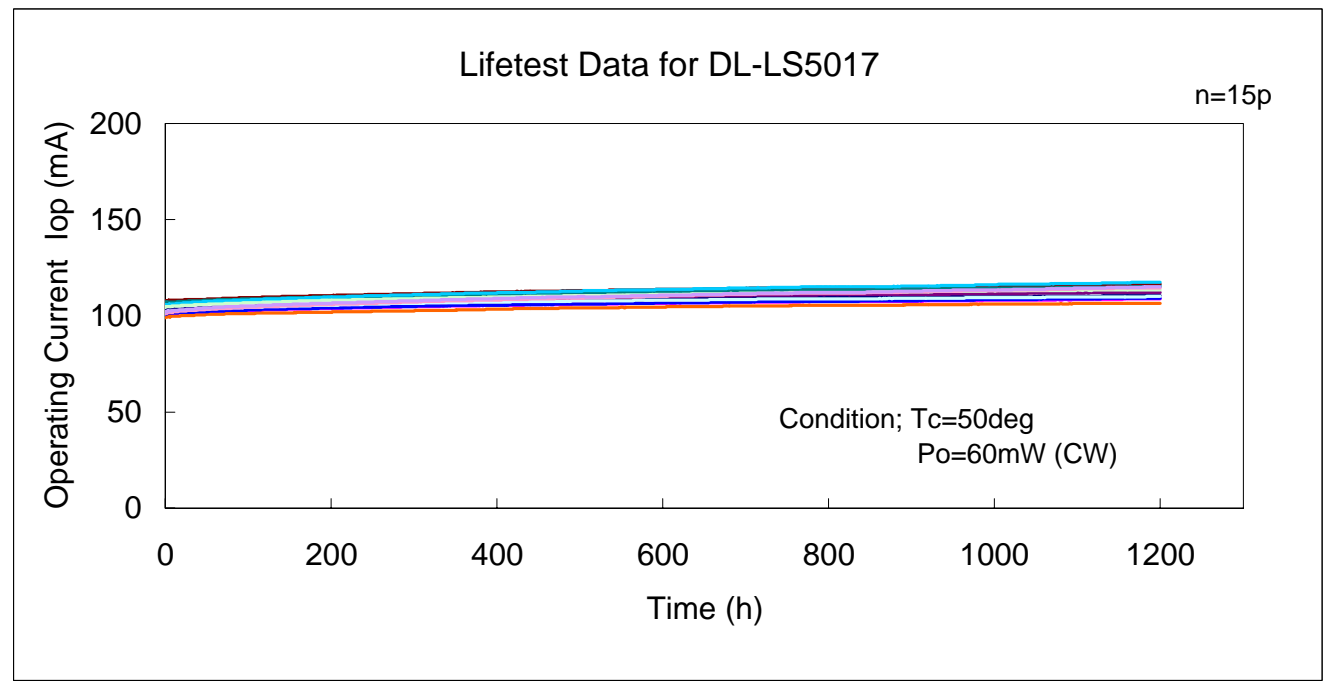
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Lifetest Data for DL-LS5017

Reference Data

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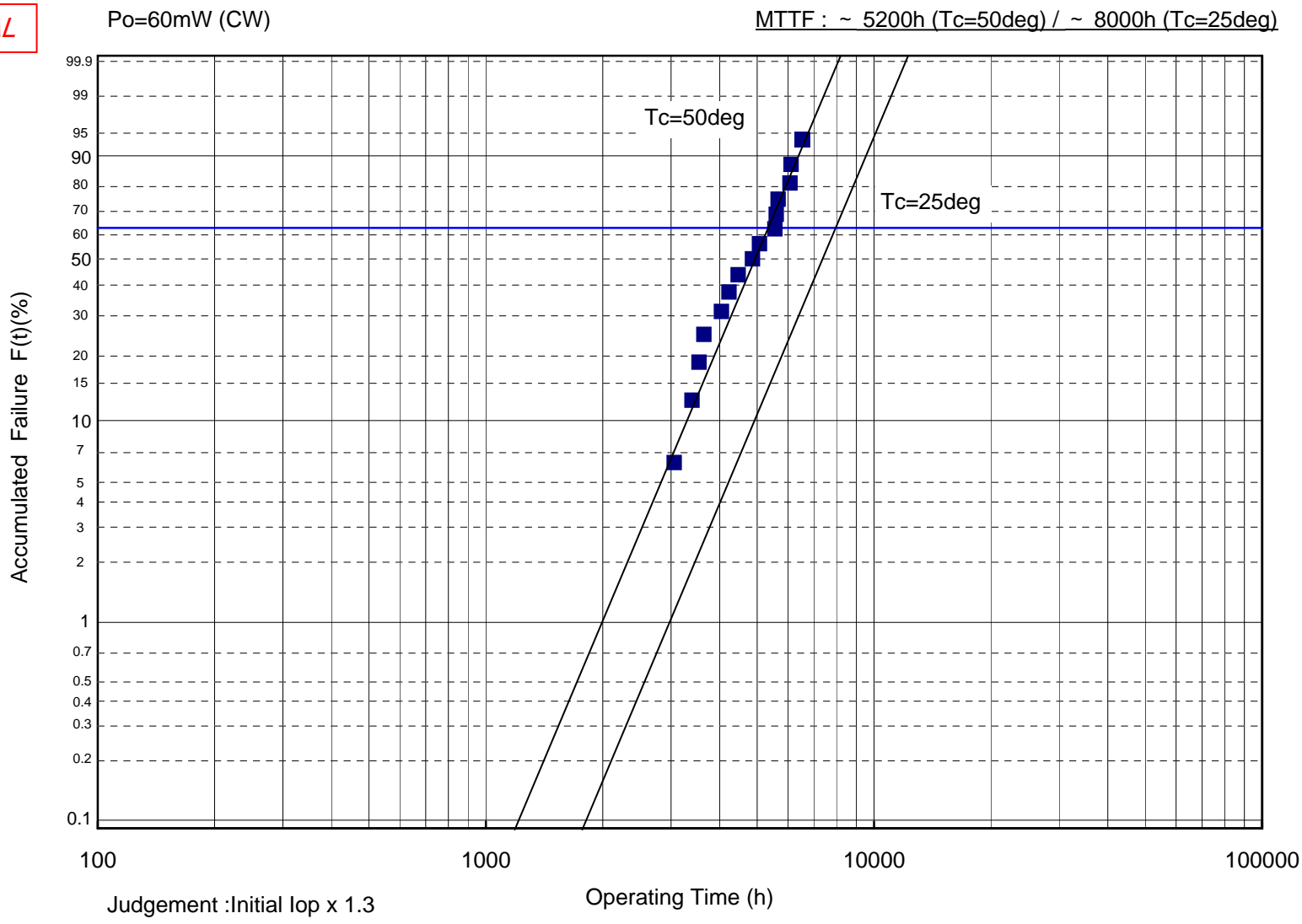
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Lifetime Prediction for DL-LS5017

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