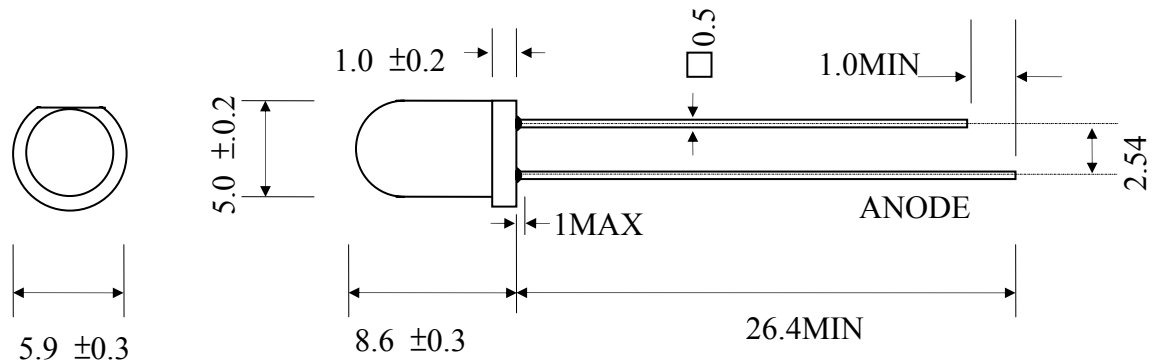


★ Package Dimensions



NOTE:

1. All dimensions are in millimeter.
2. Lead spacing is measured where the lead emerge from the package.

★ Selection Guide

Part NO.	Chip		Lens Color	Viewing Angle $2\theta_{1/2}$ (deg)
	Material	Emitted Color		
5-22-WC30-MXS	InGaN	White	Water clear	15

Part No: 5-22-WC30-MXS

★Absolute Maximum Ratings

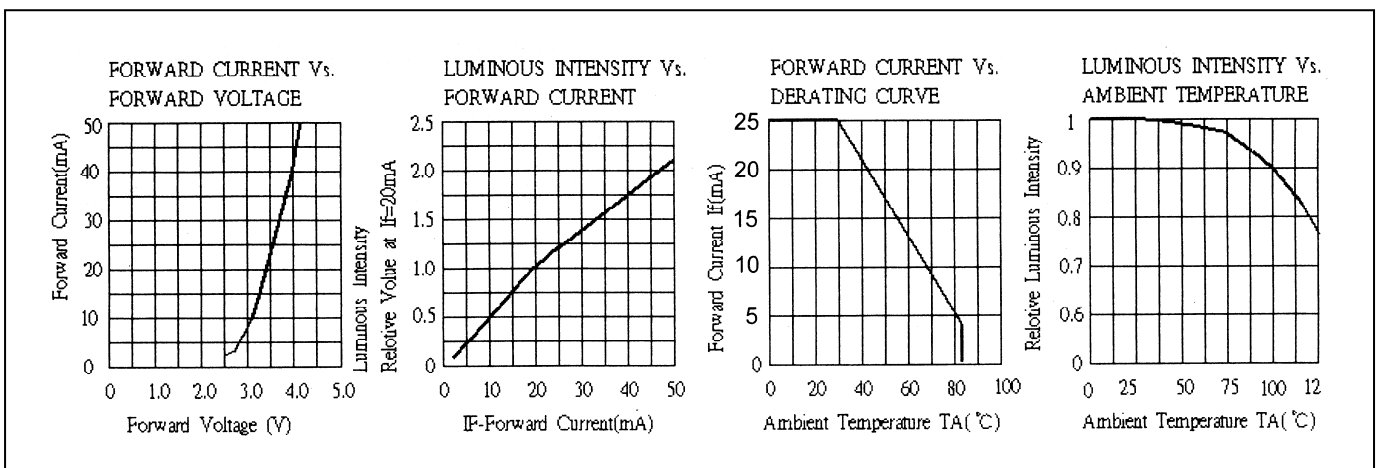
(Ta=25°C)

Parameter	Symbol	MAX. Rating	Unit
Power Dissipation	Pd	100	mW
Continuous Forward Current	IF	30	mA
Peak forward current (10 μs Pulse)	IFM	100	mA
Reverse Voltage	VR	5.0	V
Operating Temperature	Topr	-40~+85	°C
Storage Temperature	Tstg	-40~+100	°C
Lead Soldering Temperature (1.6mm From Case Bottom 260°C For 5 SEC)			

★Electric-Optical Characteristics

Parameter	Symbol	Test Condition	MIN	TYP	MAX	Unit
Forward Voltage	VF	IF=20mA		3.2	3.8	V
Reverse Voltage	IR	VR=5V			10	uA
Luminous Intensity	IV	IF=20mA	22000	33000		mcd
Chromaticity Coordinates Typ.	λ P	IF=20mA	/	X	/	nm
				0.31		
				Y		
0.32						
Spectrum Width Of Half Value	△ λ	IF=20mA		30		nm

★Characteritics Diagrams

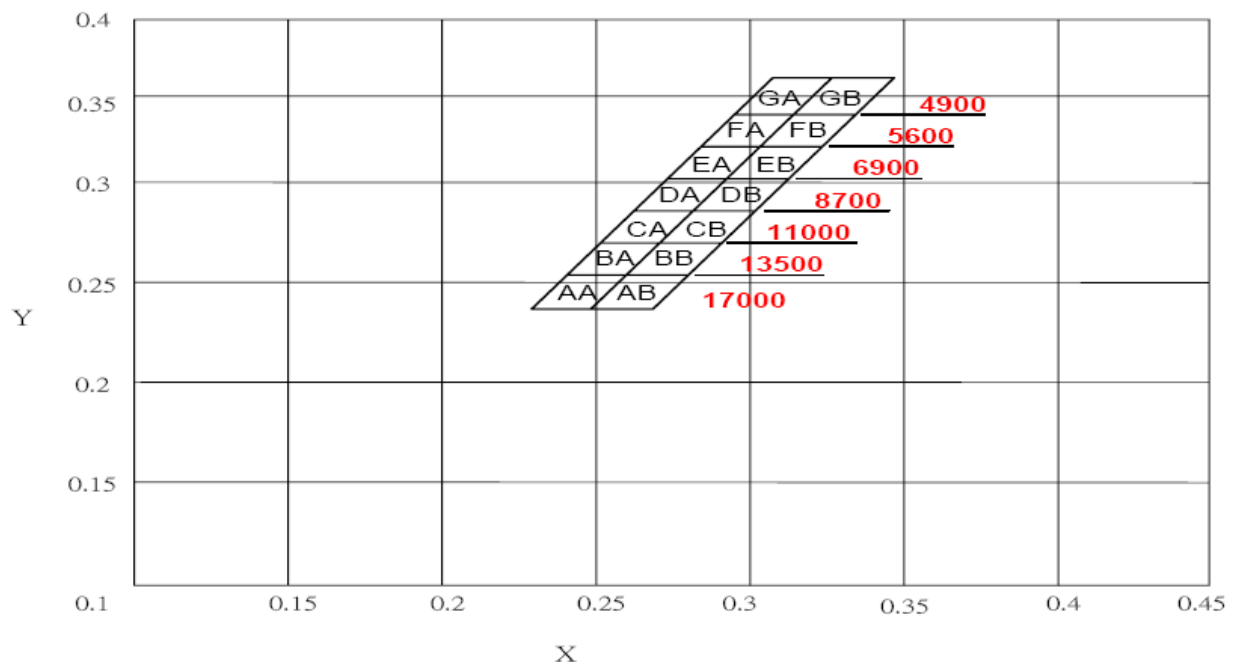


Part No: 5-22-WC30-MXS

★ Chromaticity Coordinates For Bin Gradin

Rank	Chromaticity Coordinates					Rank	Chromaticity Coordinates				
AA	x	0.227	0.239	0.256	0.244	DB	x	0.280	0.292	0.308	0.297
	y	0.234	0.252	0.252	0.234		y	0.287	0.304	0.304	0.287
AB	x	0.244	0.256	0.274	0.262	EA	x	0.276	0.288	0.304	0.292
	y	0.234	0.252	0.252	0.234		y	0.304	0.322	0.322	0.304
BA	x	0.239	0.252	0.268	0.256	EB	x	0.292	0.304	0.320	0.308
	y	0.252	0.269	0.269	0.252		y	0.304	0.322	0.322	0.304
BB	x	0.256	0.268	0.285	0.274	FA	x	0.288	0.301	0.316	0.304
	y	0.252	0.269	0.269	0.252		y	0.322	0.339	0.339	0.322
CA	x	0.252	0.264	0.280	0.268	FB	x	0.304	0.316	0.331	0.320
	y	0.269	0.287	0.287	0.269		y	0.322	0.339	0.339	0.322
CB	x	0.268	0.280	0.297	0.285	GA	x	0.301	0.313	0.328	0.316
	y	0.269	0.287	0.287	0.269		y	0.339	0.357	0.357	0.339
DA	x	0.264	0.276	0.292	0.280	GB	x	0.316	0.328	0.343	0.331
	y	0.287	0.304	0.304	0.287		y	0.339	0.357	0.357	0.339
Tolerance x ± 0.02						y ± 0.02					

★ CIE Chromaticity Diagram



Part No: 5-22-WC30-MXS**★Reliability Test**

No	Item	Test Condition	Test Hours/Cycles	Samples Tested	Acc./Rej
1	Room Temperature DC Operating Life	Ta=25°C, I _F =20mA	1000 Hrs	76	0/1
2	Thermal Shock	-10°C (5min)→ (10sec)→+100°C (5min)	100 Cycles	76	0/1
3	Temperature Cycle	-40°C (30min) →(5min)→+85 °C (30min)	100 Cycles	76	0/1
4	High Temp./ High Humi. Test	85°C/85%RH	1000 Hrs	76	0/1
5	High Temperature Storage	Ta=100°C	1000 Hrs	76	0/1
6	Low Temperature Storage	Ta= - 40°C	1000 Hrs	76	0/1
7	Soldering Heat	260°C±5°C	5 Seconds	76	0/1