

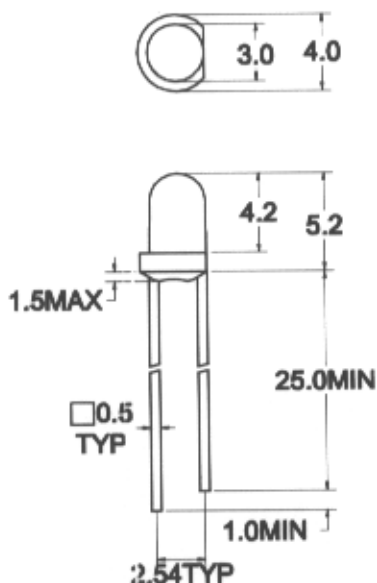
Distributed by:



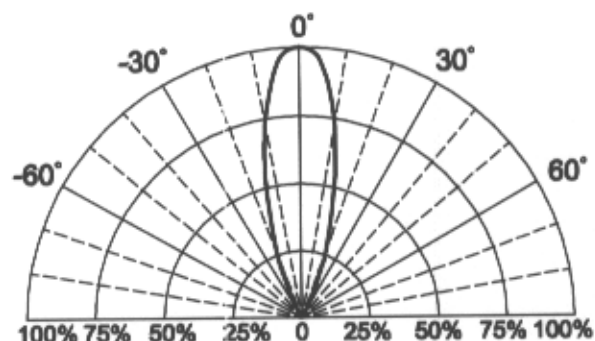
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Package Dimension



Directivity Radiation



Note: 1. All dimension are in millimeter tolerance is $\pm 0.25\text{mm}$ unless otherwise noted
2. Specifications are subject to change without notice

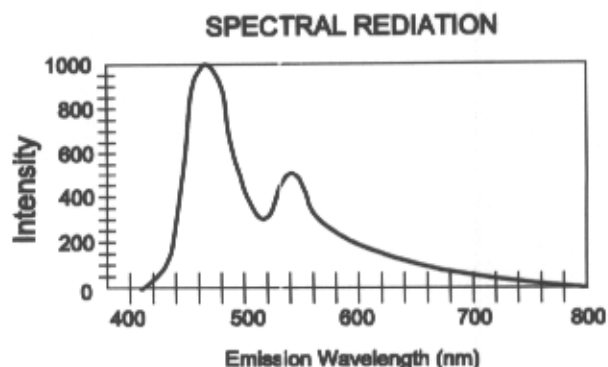
• Part Selection And Application Information (Ratings At 25°C Ambient)

PART NO	MATERIAL	COLOR		Chromaticity Coordinates		Forward current @20mA(V)		Luminous Intensity @20mA(mcd)		Viewing angle 2θ 1/2 (deg)
		Emitted	Lens	X	Y	Typ.	Max.	Min.	Typ.	
LWK2043	GaN/GaN	White	Water Clear	0.28±0.03	0.28±0.06	3.5	4.0	450	900	30

• Absolute Maximum Rating (Ta=25°C)

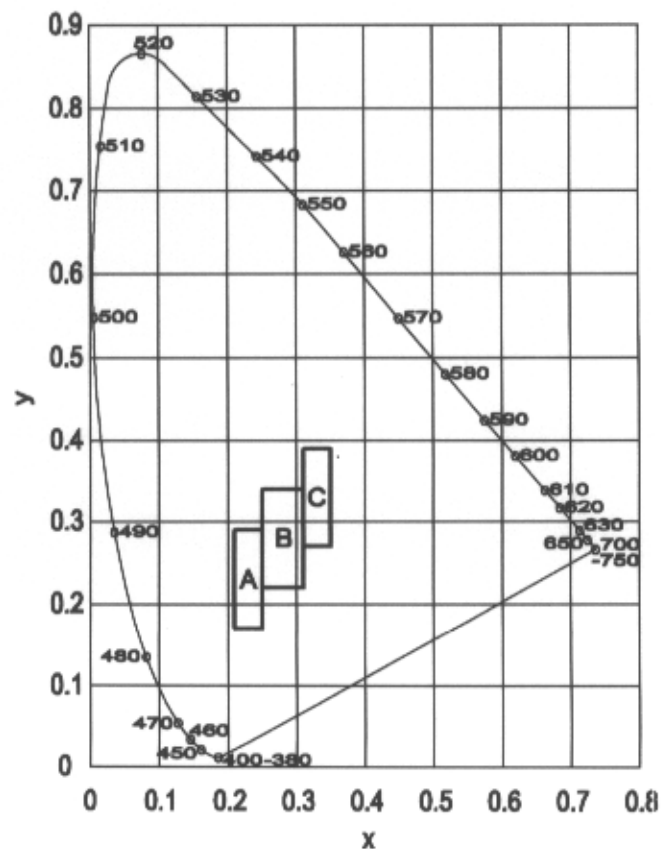
PARAMETER	WHITE	UNIT
	WK	
Forward Current	30	mA
Peak Forward Current Duty 1/10 @10KHZ	100	mA
Power Dissipation	120	mW
Reverse Current @5V	50	μ A
Operating Temperature	-20℃ TO +80℃	
Storage Temperature	-30℃ TO +100℃	
Lead Soldering Temperature 260℃ For 5 Seconds(2.0mm From Body)		

• Luminous Spectrum (Ta=25°C)



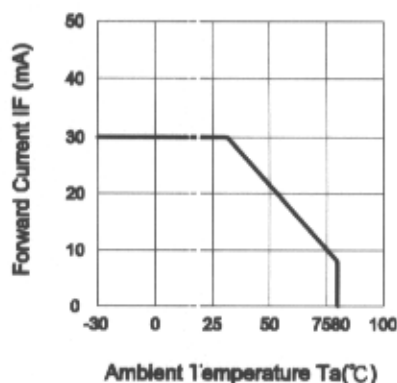
Rank	Chromaticity Coordinates		Rank	Chromaticity Coordinates		Rank	Chromaticity Coordinates	
A	$X=0.23\pm0.02$	$Y=0.23\pm0.06$	B	$X=0.28\pm0.03$	$Y=0.28\pm0.06$	C	$X=0.33\pm0.02$	$Y=0.33\pm0.06$
A-1	$X=0.23\pm0.02$	$Y=0.2\pm0.03$	B-1	$X=0.28\pm0.03$	$Y=0.24\pm0.015$	C-1	$X=0.33\pm0.02$	$Y=0.3\pm0.03$
A-2	$X=0.23\pm0.02$	$Y=0.26\pm0.03$	B-2	$X=0.28\pm0.03$	$Y=0.26\pm0.015$	C-2	$X=0.33\pm0.02$	$Y=0.36\pm0.03$
			B-3	$X=0.28\pm0.03$	$Y=0.29\pm0.015$			
			B-4	$X=0.28\pm0.03$	$Y=0.32\pm0.015$			

CIE Chromaticity Diagram

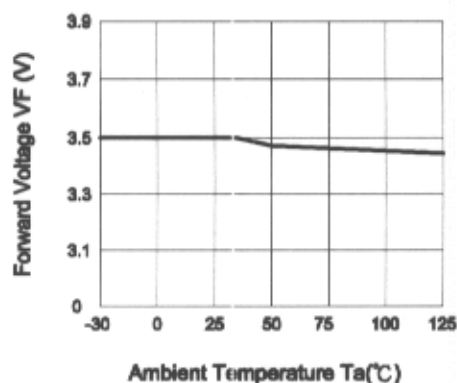


Typical Electro-Optical Characteristics Curves

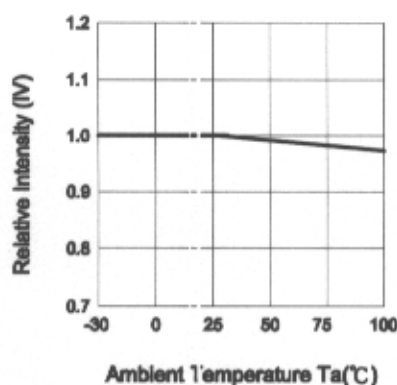
Forward Current vs Ambient Temperature



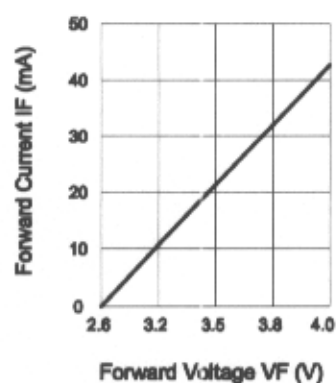
. Forward Voltage vs Ambient Temperature



Relative Intensity vs Ambient Temperature



Forward Current vs Forward Voltage

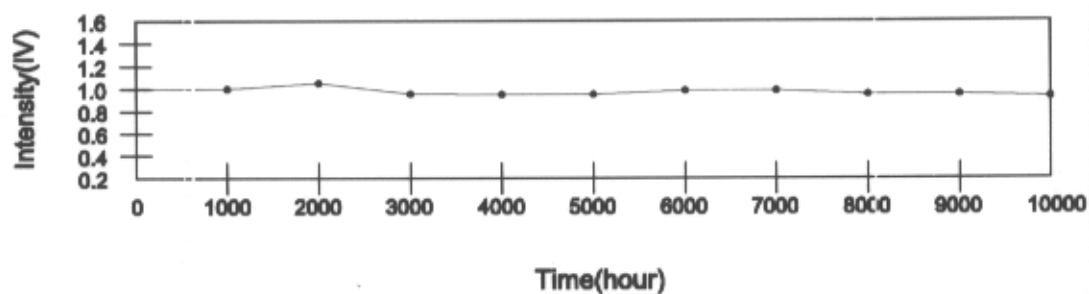


Reliability Test Report

Part No : LWK2043

[illegible]

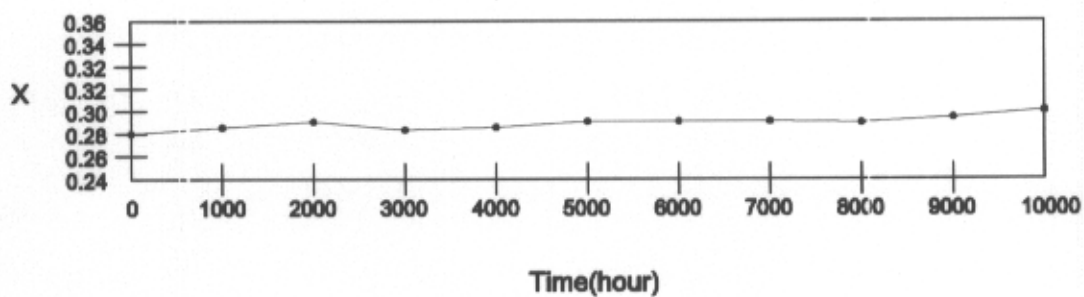
Life Time Test



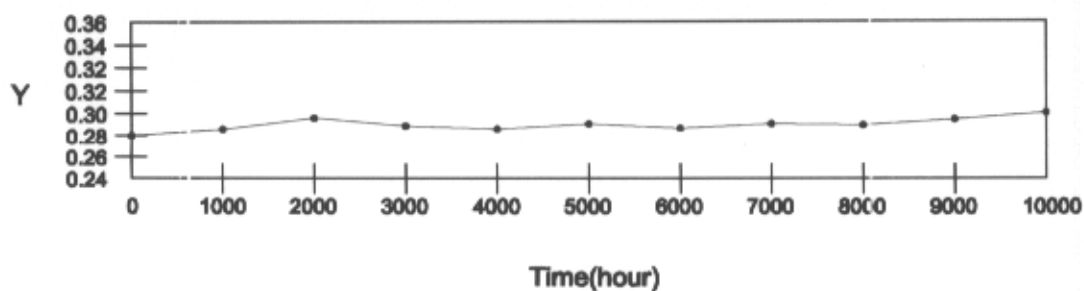
Test Condition : $T_a = 25^{\circ}\text{C}$, $I_f = 20\text{mA}$

CIE 1931(X,Y) Chromaticity Coordinates (Life Time Test)

Life Time Test



Life Time Test



Measuring Condition : $T_a = 25^{\circ}\text{C}$