



FLUX LED SPECIFICATION



ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

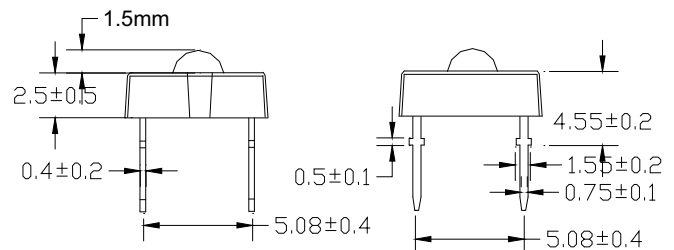
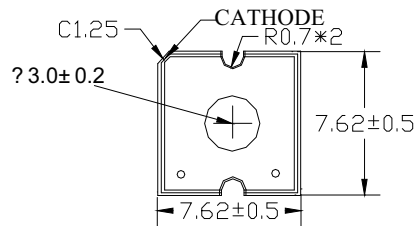
940MW7C

Features:

- Single color
- High bright output
- High Current Operation
- Low power consumption
- High reliability and long life

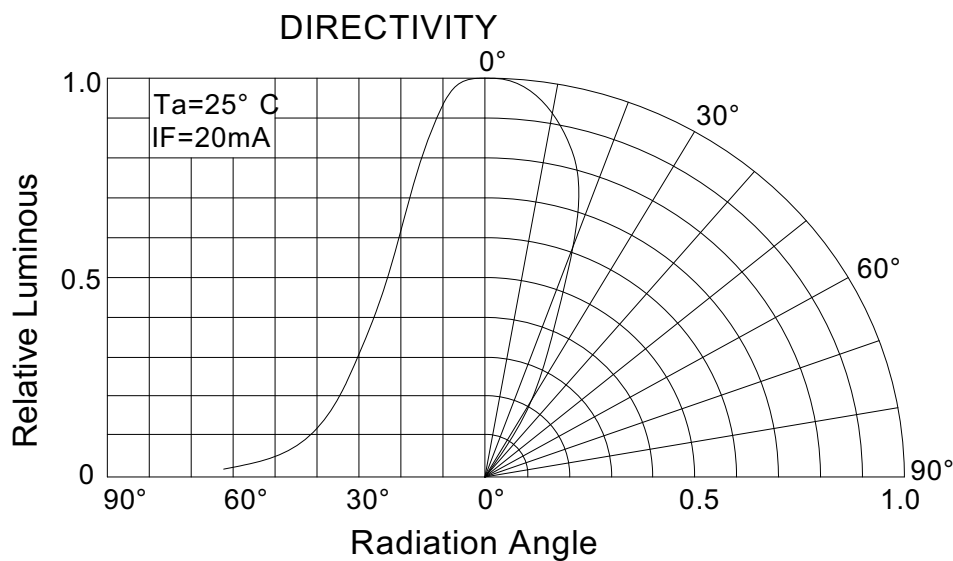
Descriptions:

- Dice material: InGaN
- Emitting Color: White
- Device Outline: 7.6mmX7.6mm
- Lens Type: Water Clear



NOTE:

- All dimensions are millimetres.
- Tolerance is +/-0.25mm unless otherwise





LED SPECIFICATION

Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Test Condition	Value		Unit
			Min.	Max.	
Reverse Voltage	V _R	I _R = 30 μA	5	--	V
Forward Current	I _F	----		30	mA
Power Dissipation	P _d	----	----	75	mW
Pulse Current	I _{peak}	Duty=0.1mS, 1kHz	----	100	mA
Operating Temperature	T _{opr}	----	-40	+85	°C
Storage Temperature	T _{str}	----	-40	+100	°C

Electrical and optical characteristics (Ta = 25°C)

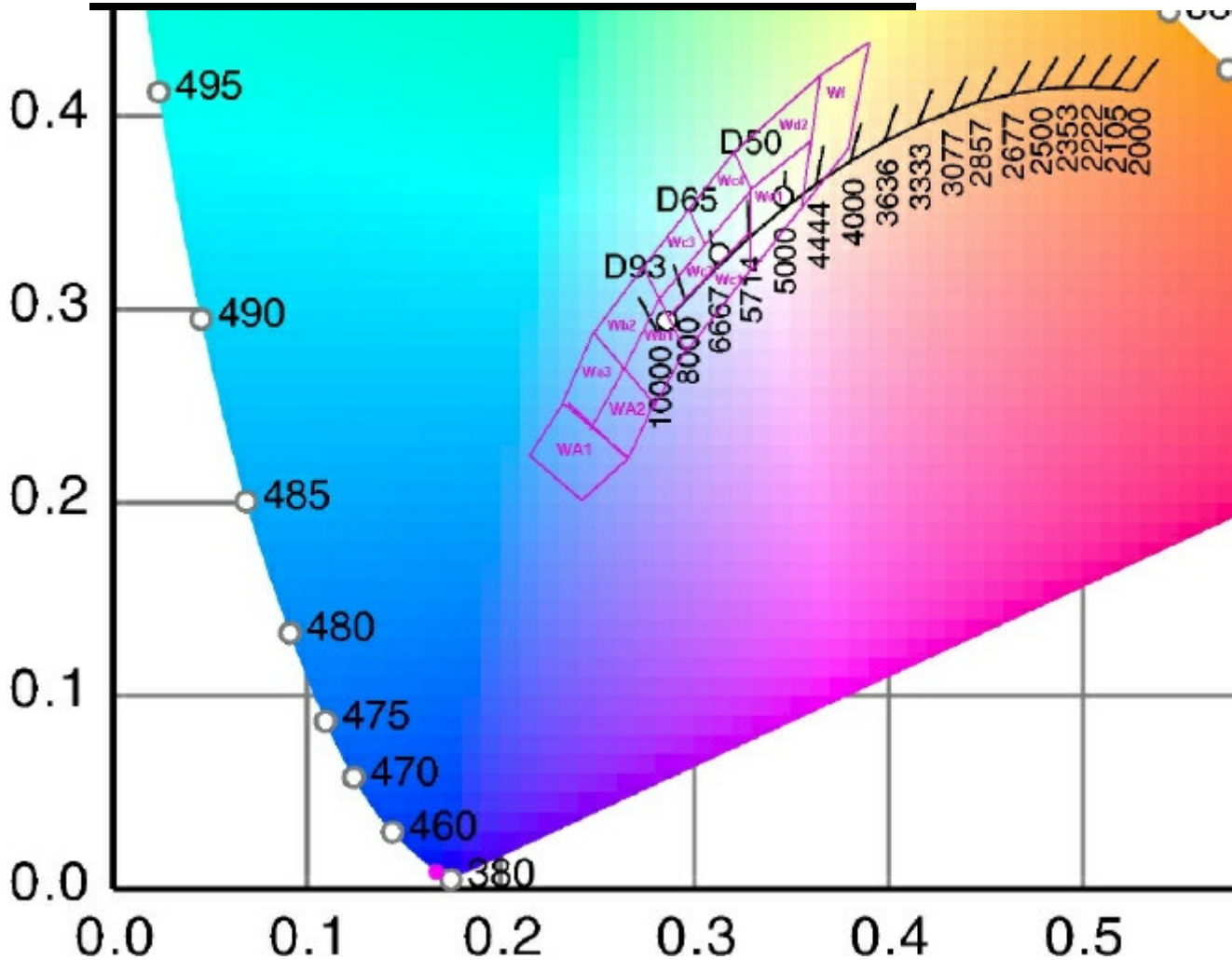
Parameter	Symbol	Test Condition	Value			Unit
			Min.	Typ.	Max.	
Forward Voltage	V _F	I _F = 50mA		V ₉ ~V ₁₂		
Reverse Current	I _R	V _R = 5V	----	----	30	μA
Color	λ _d	I _F = 50mA		WA~WD		
Spectral Line half-width	Δλ	I _F = 50mA		---		nm
Luminous Flux	IV	I _F = 50mA		L,M		
Viewing Angle	2θ 1/2	I _F = 50mA	35		40	Deg.

FLUX BIN FOR PIRANHA (UFO) LEDS

Bin Code	LM	Bin Code	LM	Bin Code	LM	Bin Code	LM
A	<=0.46	E	1.0-1.3	J	2.8-3.6	N	7.8-10.0
B	0.46-0.60	F	1.3-1.7	K	3.6-4.7	P	10-13
C	0.60-0.77	G	1.7-2.2	L	4.7-6.0	Q	13-17
D	0.77-1.0	H	2.2-2.8	M	6.0-7.8	R	17-22

FOR WHITE COLOR BINS SEE PAGE 3B

Placing of white color BINS on CIE table

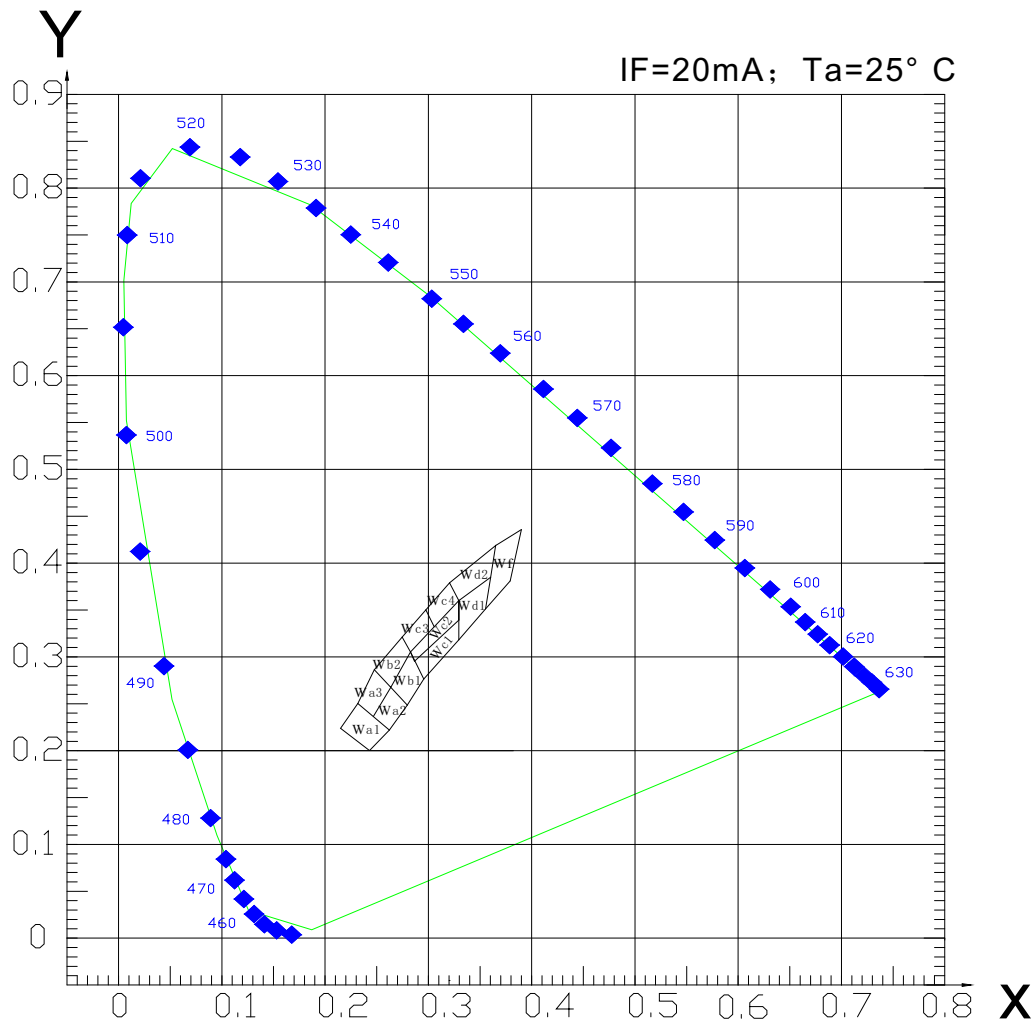


FORWARD VOLTAGE (VF) BIN

Bin Code	VF (V)	Bin Code	VF (V)	Bin Code	VF (V)	Bin Code	VF (V)
V1	1.6-1.8	V5	2.4-2.6	V9	3.2-3.4	V13	4.0-4.2
V2	1.8-2.0	V6	2.6-2.8	V10	3.4-3.6	V14	4.2-4.4
V3	2.0-2.2	V7	2.8-3.0	V11	3.6-3.8	V15	4.4-4.6
V4	2.2-2.4	V8	3.0-3.2	V12	3.8-4.0	V16	4.6-4.8

Chromaticity Coordinates Ranks (IF=20mA Ta=25°C)

Wa1	X	0.243	0.215	0.230	0.263	Wa2	X	0.263	0.246	0.264	0.280
	Y	0.200	0.230	0.250	0.220		Y	0.220	0.236	0.267	0.248
Wa3	X	0.246	0.230	0.248	0.264	Wb1	X	0.280	0.264	0.283	0.296
	Y	0.236	0.250	0.286	0.267		Y	0.248	0.267	0.305	0.276
Wb2	X	0.264	0.248	0.275	0.283	Wc1	X	0.296	0.287	0.330	0.330
	Y	0.267	0.286	0.321	0.305		Y	0.276	0.295	0.339	0.318
Wc2	X	0.287	0.283	0.330	0.330	Wc3	X	0.283	0.275	0.298	0.306
	Y	0.295	0.305	0.360	0.339		Y	0.305	0.321	0.350	0.332
Wc4	X	0.306	0.298	0.321	0.330	Wd1	X	0.330	0.330	0.361	0.356
	Y	0.332	0.350	0.379	0.360		Y	0.318	0.360	0.385	0.351
Wd2	X	0.330	0.321	0.366	0.361	Wf	X	0.356	0.366	0.391	0.380
	Y	0.360	0.379	0.419	0.385		Y	0.351	0.419	0.436	0.381



Typical electrical/optical characteristic curves:

