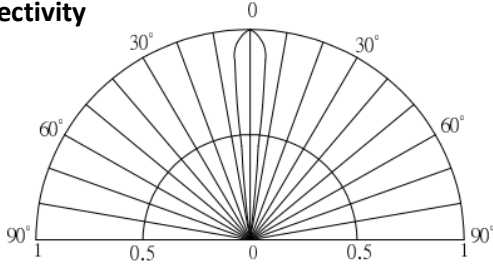
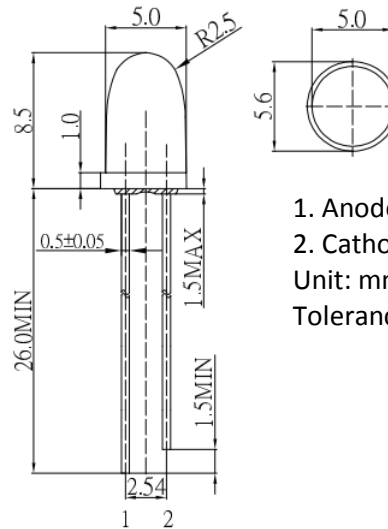


Features

- High Luminous LEDs
- 5mm Standard Directivity
- Long Lifetime Operation
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

Directivity

Outline Dimensions


1. Anode
 2. Cathode
 Unit: mm
 Tolerance ± 0.30mm

Absolute Maximum Rating (Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I_F	30	mA
Pulse Forward Current*	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	108	mW
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	260°C / 5sec	-

*Pulse width Max 10ms, Duty ratio max 1/10

Electrical –Optical Characteristics (Ta=25°C)

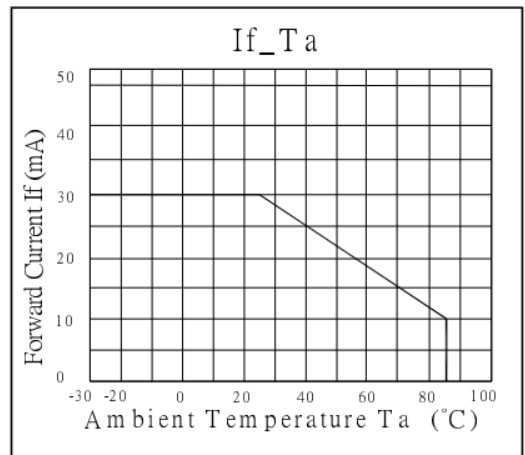
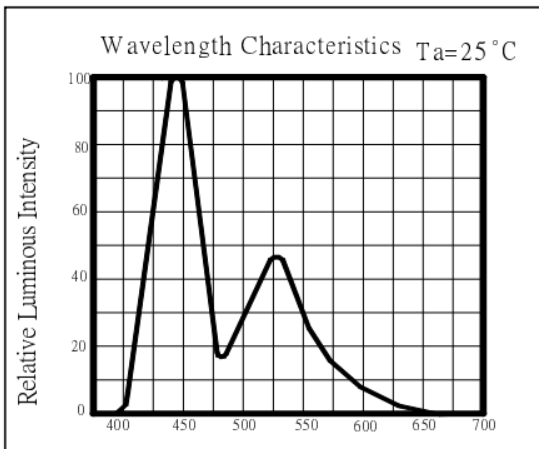
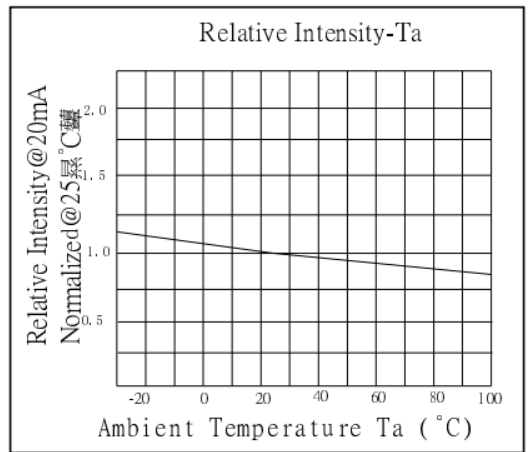
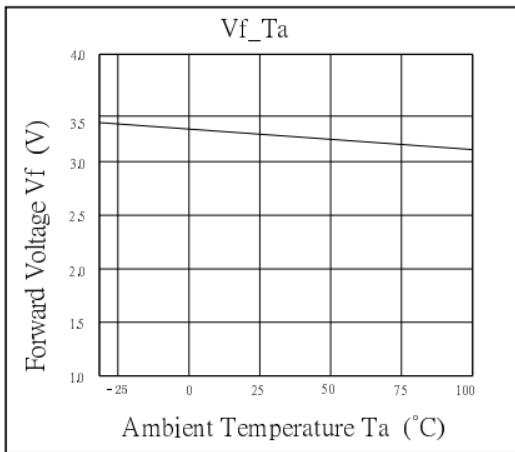
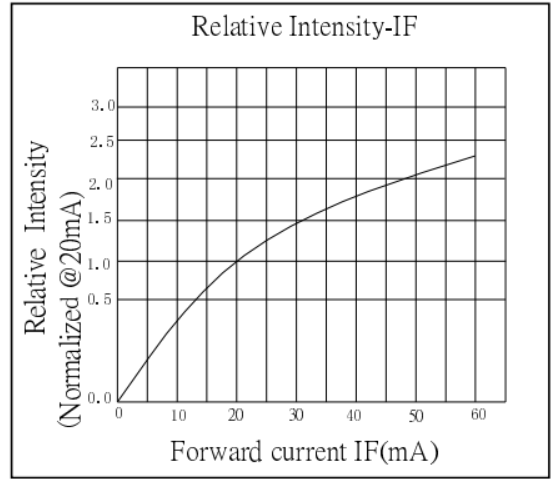
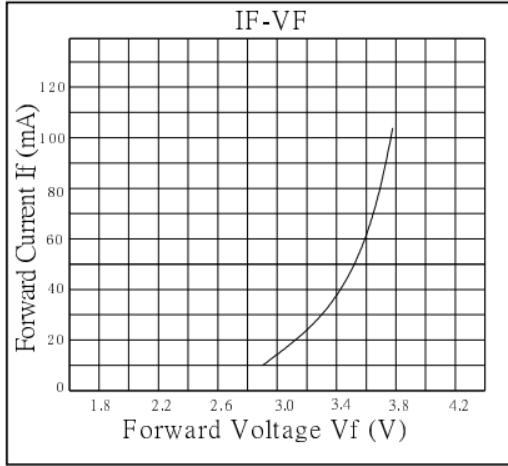
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Current	V_F	$I_F=20mA$	2.9	3.1	3.6	Unit
DC Reverse Current	I_R	$V_R=5V$	-	-	10	µA
Luminous Intensity*	I_V	$I_F=20mA$	-	40000	-	mcd
Color Temperature	CCT	$I_F=20mA$	80000	10000	18000	K
Chromaticity Coordinates*	X	$I_F=20mA$	-	0.27	-	
	Y	$I_F=20mA$	-	0.28	-	
50% Power Angle	2θ1/2	$I_F=20mA$	-	8	-	deg

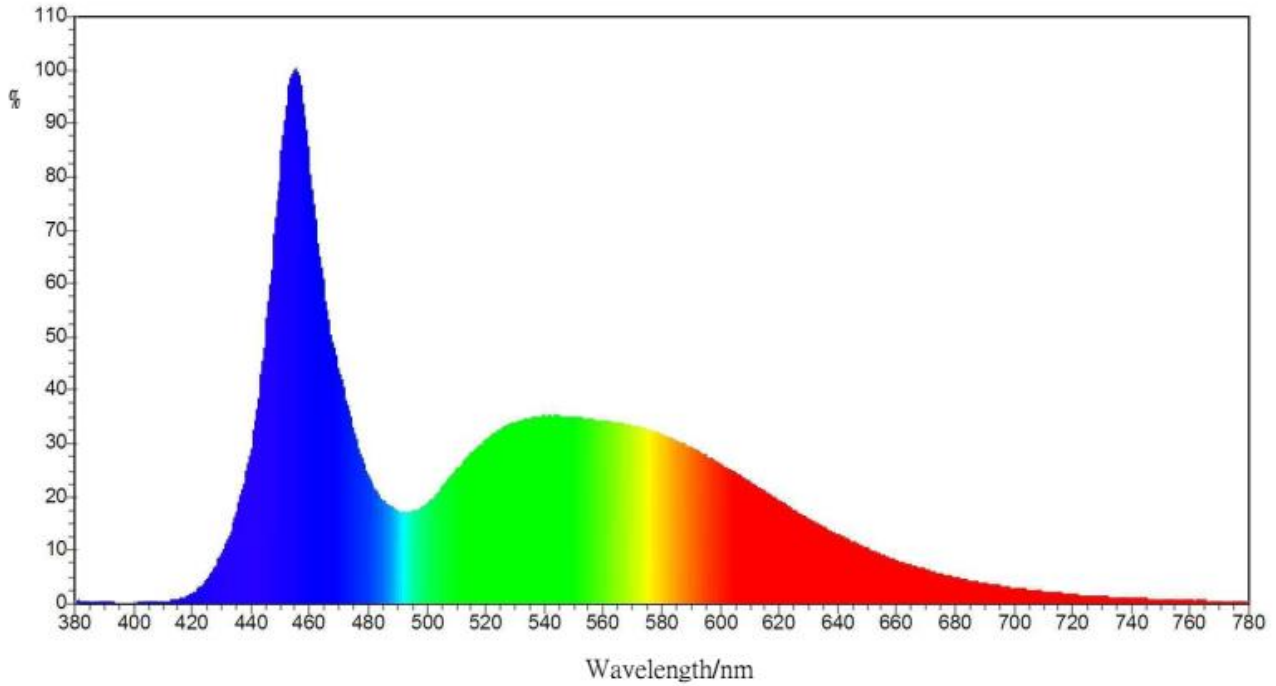
*1 Tolerance of chromaticity coordinates is +10%

*2 Tolerance of luminous intensity is +15%

InGaN LED

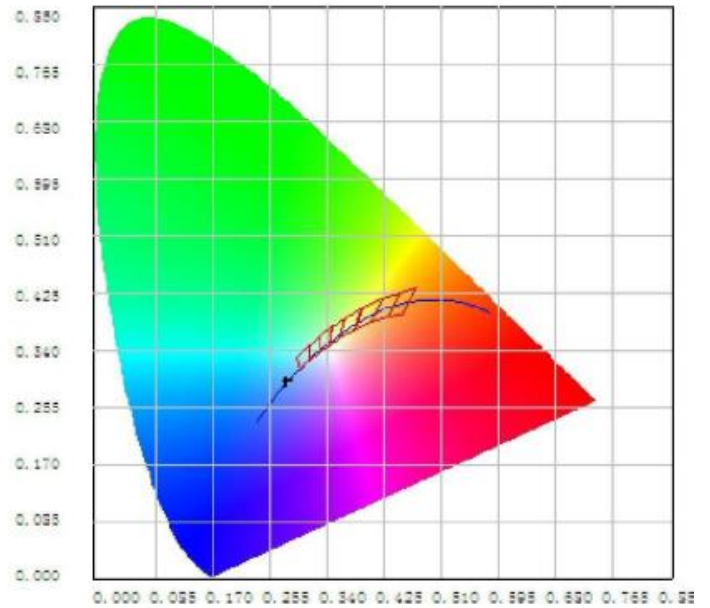
Typical Electrical/Optical Characteristic Curves





光谱参数

x: 0.2833	y: 0.2966	
u: 0.1891	v: 0.2970	
主波长: 481.5 nm	峰值波长: 455.1 nm	
半波宽: 22.7 nm	色纯度: 20.128	
相关色温: 9305 K	显色指数: 80.5	
SDCM: 20.95	DUV: 0.0027	
R%: 22.9	G%: 38.9	B%: 38.2
R1: 79.1	R2: 88.0	R3: 87.9
R4: 75.7	R5: 77.7	R6: 79.1
R7: 87.3	R8: 69.2	R9: 0.8
R10: 66.8	R11: 72.9	R12: 46.0
R13: 82.8	R14: 93.6	R15: 76.3



光电参数

光通量: 6.983 lm	光效率: 120.397 lm/w	光功率: 24.95 mw
测试电流: 20.0 mA	正向电压: 2.88 V	功率: 0.058 w
		功率因数:

备注:

850-PN10-WR027