








CITIZEN ELECTRONICS CO.,LTD.

CITIZEN

CL-426

NEW

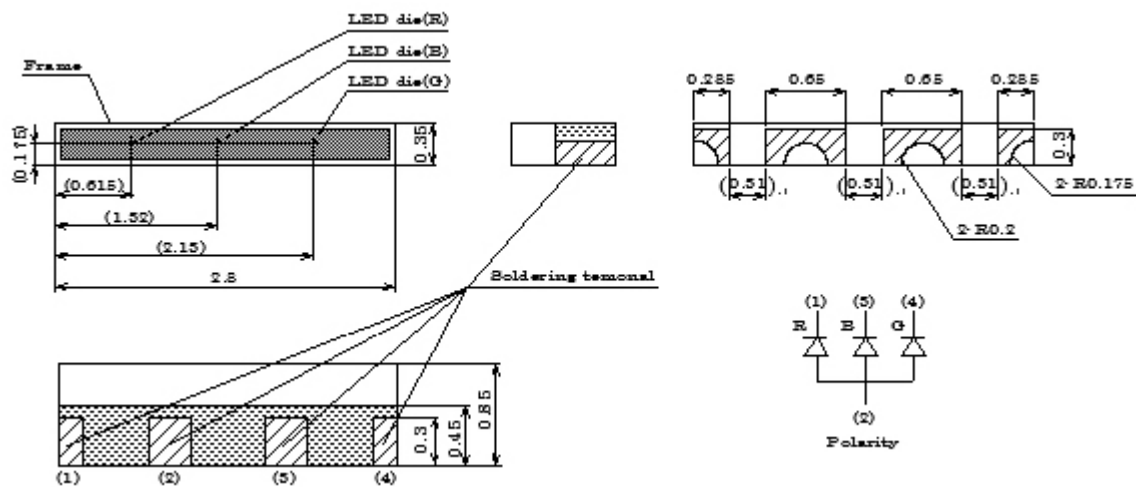


-  Side-lighting type
-  2.80 x 0.85 x 0.35 mm
-    
-  CL-426F-AA, CL-426F-AACC

CL-426F-AA

●Outline drawing

Unit: mm

Tolerance: ± 0.1 

●Performance

(1) Absolute Maximum Rating

(Ta=25°C)

Parameter	Symbol	Rating Value	Unit
Total Value of Power Dissipation	P *1	(125)	mW
Power Dissipation	Pd	R:(54) G:(69) B:(70)	mW
Forward Current	IF	(20)	mA
Forward Pulse Current *	IFP	(100 *2)	mA
Reverse Voltage	VR	5	V
Operating Temperature	Top	-25 ~ +80	°C
Storage Temperature	Tst	-30 ~ +85	°C

*1 P means the Total Value of Power Dissipation when all colors are ON.

*2 Duty \leq 1/10, Pulse width \leq 0.1 msec

(2) Electro-optical Characteristic

(Ta=25°C)

Parameter	Symbol	Condition	Color	MIN	TYP	MAX	Unit
Forward Voltage	VF	IF=5mA	R	(1.40)	(1.85)	(2.40)	V
			G	(2.40)	(2.70)	(3.10)	
			B	(2.40)	(2.75)	(3.20)	
Reverse Current	IR	VR=5V	R	-	-	(100)	μ A
			G	-	-	(2)	
			B	-	-	(2)	
Luminous Intensity *	IV	IF=5mA	R	(90)	(160)	-	mcd
			G	(125)	(250)	-	
			B	(25)	(52)	-	

R	-	(628)	-
G	-	(530)	-
B	-	(470)	-

* In accordance with NIST standard

Note 1) The tolerance of Forward Voltage measurement is $\pm 3\%$ at our tester.

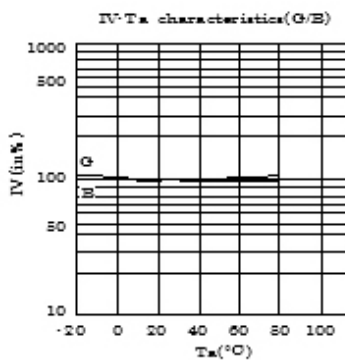
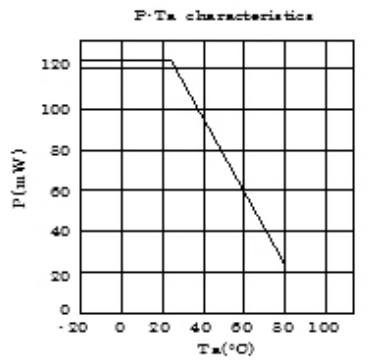
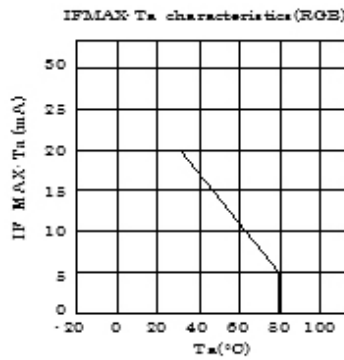
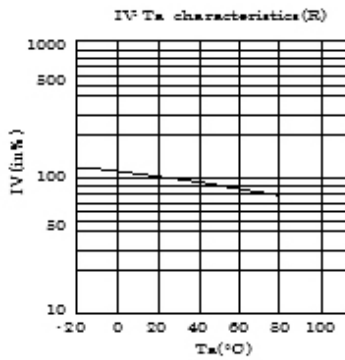
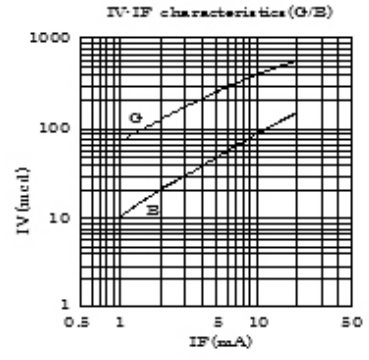
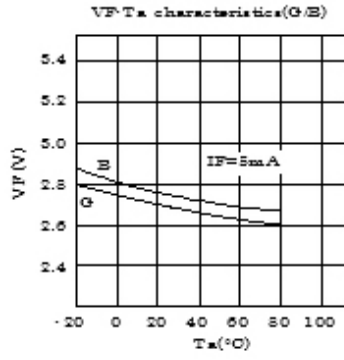
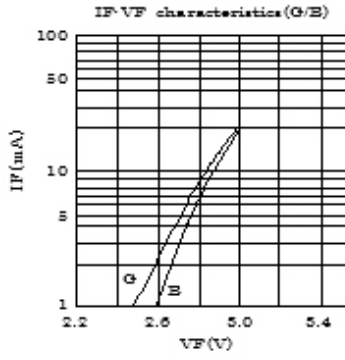
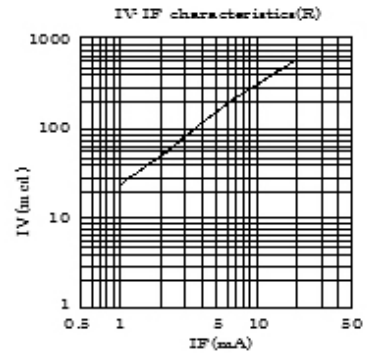
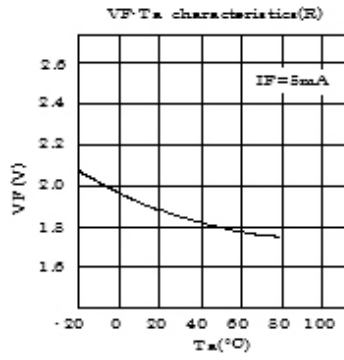
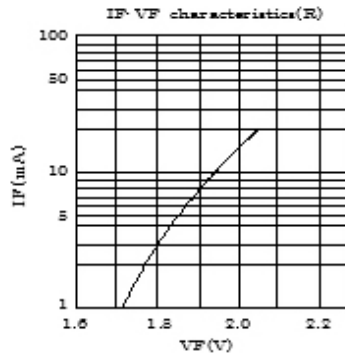
Note 2) The tolerance of Luminous Intensity measurement is $\pm 10\%$ at our tester

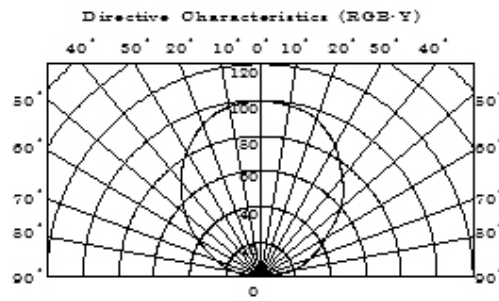
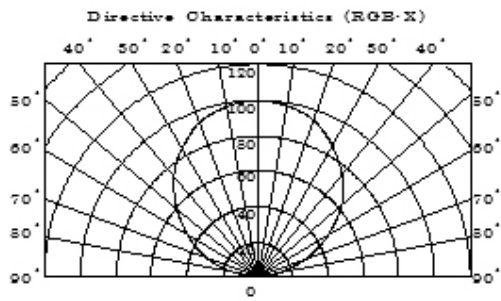
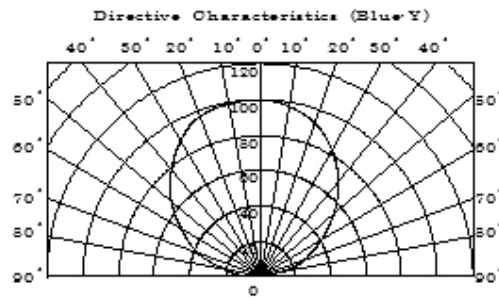
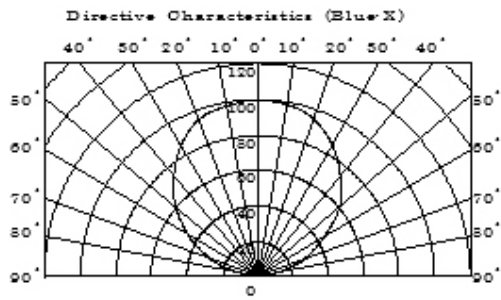
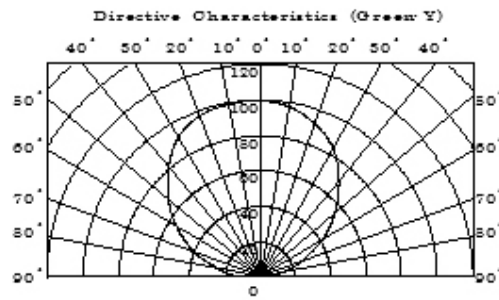
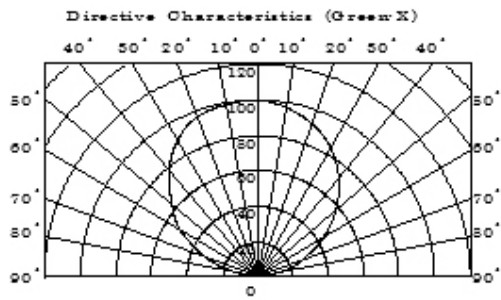
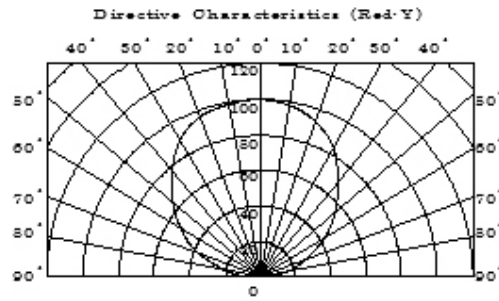
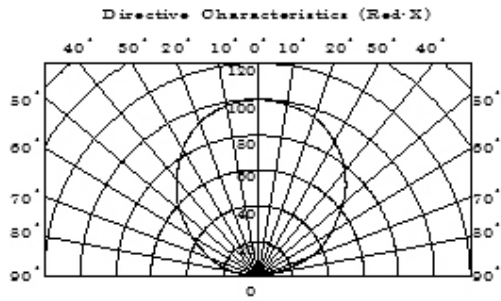
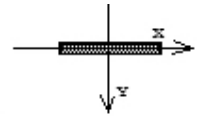
Note 3) The tolerance of Dominant Wave length measurement is $\pm 2\text{nm}$ at our tester

Note 4) Please be aware that the above electro-optical characteristics are guaranteed when applying the current values shown in the table.

Please consult us when this product is used under any other conditions.

● **Characteristic**

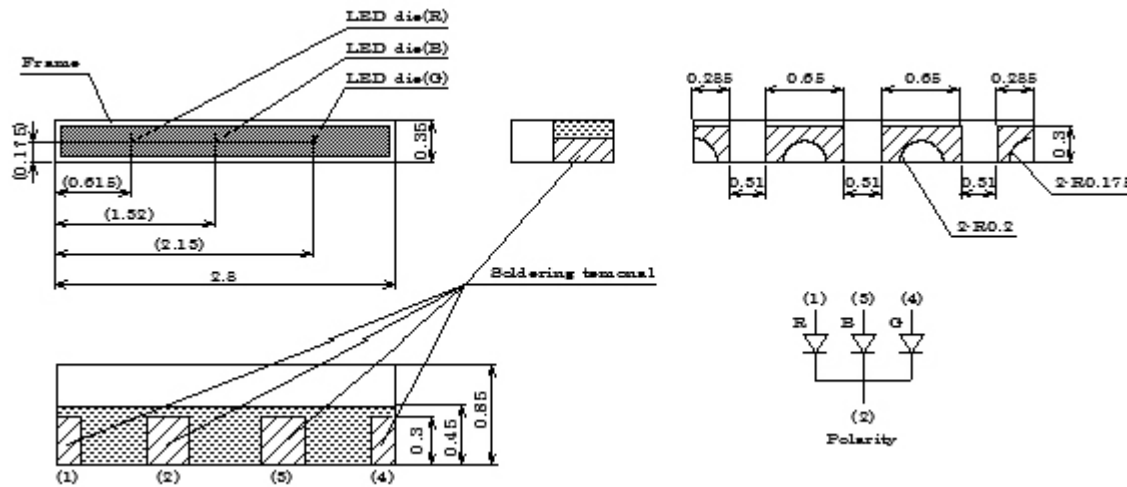




CL-426F-AACC

●Outline drawing

Unit: mm

Tolerance: ± 0.1 

●Performance

(1) Absolute Maximum Rating

(Ta=25°C)

Parameter	Symbol	Rating Value	Unit
Total Value of Power Dissipation	P *1	125	mW
Power Dissipation	Pd	R:(54) G:(69) B:(70)	mW
Forward Current	IF	20	mA
Forward Pulse Current *	IFP	100 *2	mA
Reverse Voltage	VR	5	V
Operating Temperature	Top	-25 ~ +80	°C
Storage Temperature	Tst	-30 ~ +85	°C

*1 P means the Total Value of Power Dissipation when all colors are ON.

*2 Duty $\leq 1/10$, Pulse width ≤ 0.1 msec

(2) Electro-optical Characteristic

(Ta=25°C)

Parameter	Symbol	Condition	Color	MIN	TYP	MAX	Unit
Forward Voltage	VF	IF=5mA	R	(1.40)	(2.00)	(2.40)	V
			G	(2.40)	(2.70)	(3.10)	
			B	(2.40)	(2.80)	(3.20)	
Reverse Current	IR	VR=5V	R	-	-	(100)	μA
			G	-	-	(2)	
			B	-	-	(2)	
Luminous Intensity *	IV	IF=5mA	R	(60)	(120)	-	mcd
			G	(125)	(250)	-	
			B	(25)	(62)	-	
Dominant Wave length	λd	IF=5mA	R	-	(628)	-	nm
			G	-	(530)	-	
			B	-	(470)	-	

* In accordance with NIST standard

Note 1) The tolerance of Forward Voltage measurement is ±3% at our tester.

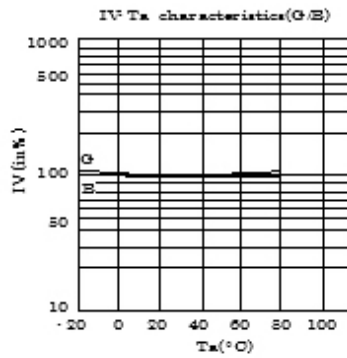
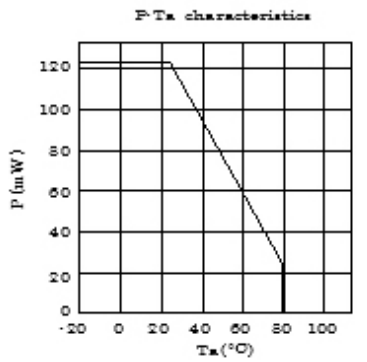
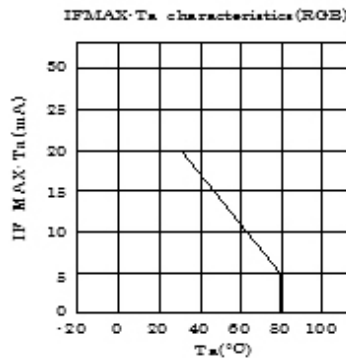
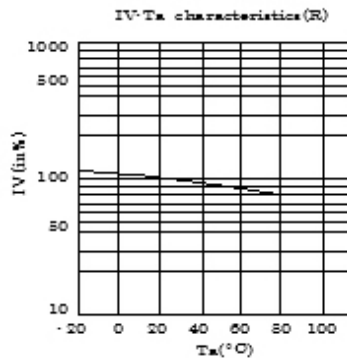
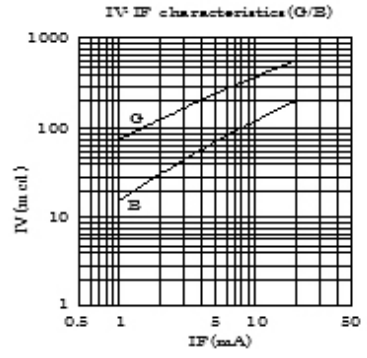
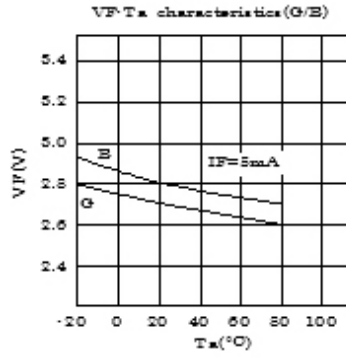
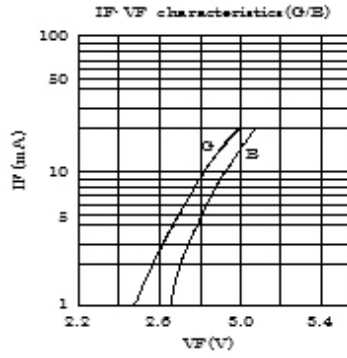
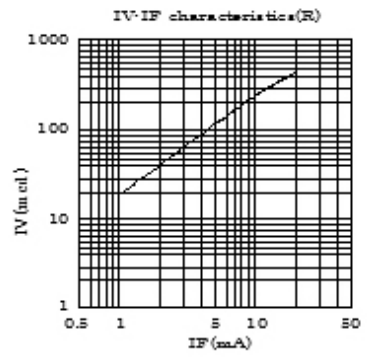
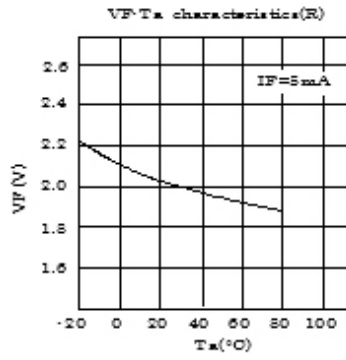
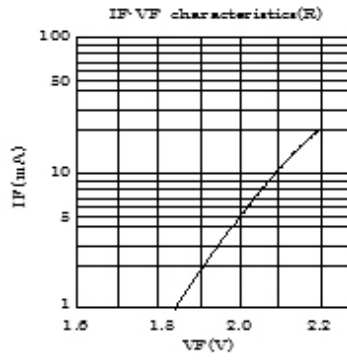
Note 2) The tolerance of Luminous Intensity measurement is ±10% at our tester

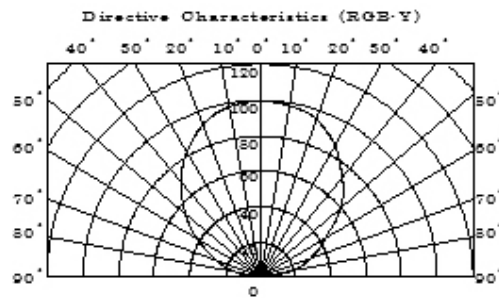
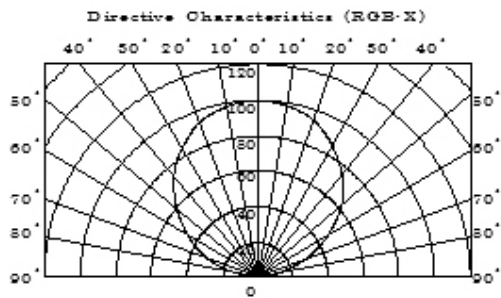
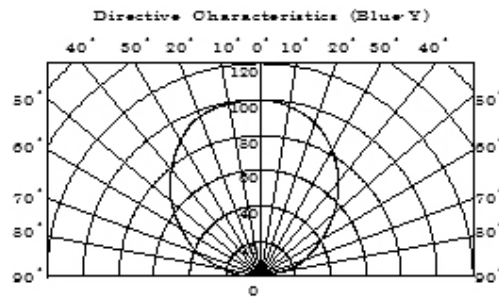
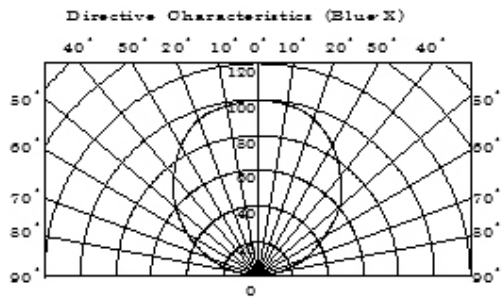
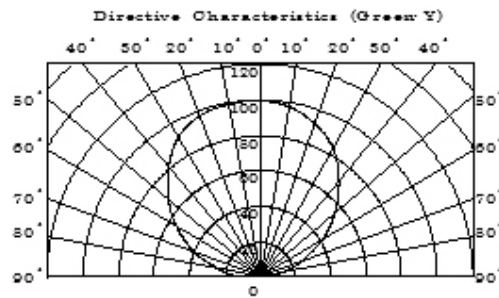
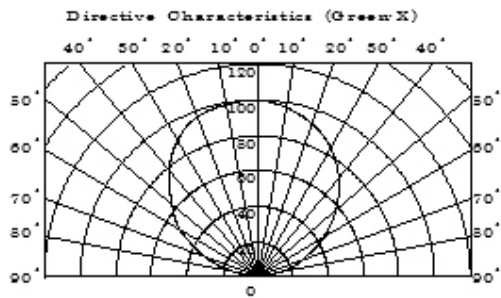
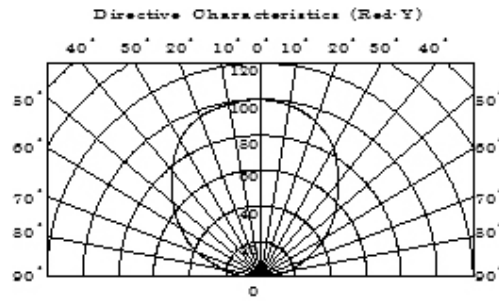
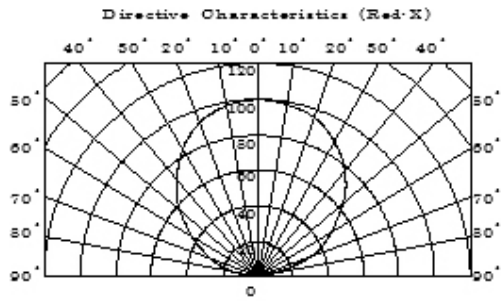
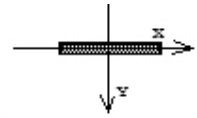
Note 3) The tolerance of Dominant Wave length measurement is ±2nm at our tester

Note 4) Please be aware that the above electro-optical characteristics are guaranteed when applying the current values shown in the table.

Please consult us when this product is used under any other conditions.

●Characteristic





Explanation of Icons



Package




Size (L x W x H) mm





Color variations

Concerning color variation

Similar colors are omitted from the color variation indicated above.

 includes three types of green: Pure green, Green and Fresh green.

 includes two types of orange: Orange and Super brightness orange.

 includes four types of red: Red, High brightness red, Super brightness red and Ultra brightness red.

*Please contact us regarding the possibility of mass production of models, as it differs depending on the luminescent color.