



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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REV.	DATE	BY	DESCRIPTION	503265
A	011212	LC	INITIAL RELEASE	

## ELECTRO-OPTICAL CHARACTERISTICS @ T<sub>a</sub> = 25°C

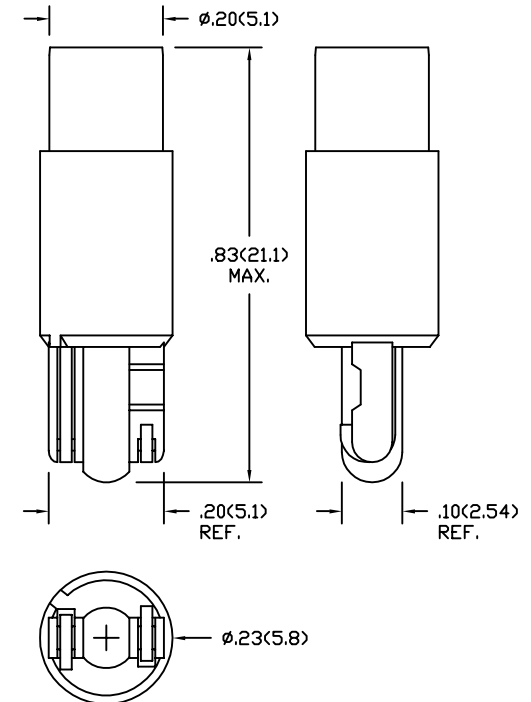
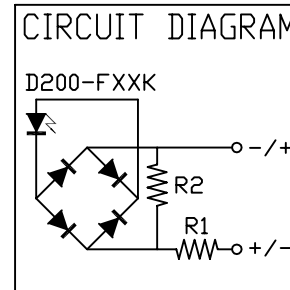
SYM	PARAMETER	X = LED COLOR						UNIT
		RED	ORANGE	AMBER	GREEN	BLUE	WHITE	
I <sub>v</sub>	TYP. LUMINOUS INTENSITY @ I <sub>f</sub> =20mA	300	450	325	300	125	270	mcd
V <sub>o</sub>	OPERATING VOLTAGE	6	6	6	6	6	6	V
I <sub>f</sub>	TYP. FORWARD CURRENT @ V <sub>f</sub> =6V	23~30			8~13			mA
I <sub>mx</sub>	MAX. FORWARD CURRENT @ V <sub>f</sub> =7V	40	40	40	20	20	20	mA
V <sub>br</sub>	REVERSE BREAKDOWN @ I <sub>r</sub> =100uA	-	-	-	-	-	-	V
λ <sub>pk</sub>	PEAK WAVELENGTH	635	609	592	520	465	-	nm
λ <sub>D</sub>	DOMINANT WAVELENGTH	626	605	590	525	470	-	nm

## ABSOLUTE MAX. RATING T<sub>a</sub>=25°C

PARAMETER	VALUE		UNIT
	R, O & A	G, B & W	
POWER DISSIPATION	280	140	mW
DERATE/°C >T <sub>a</sub>	4.2	2.1	mW
OPERATING VOLTAGE	7	7	V
OPERATING TEMPERATURE	-40<+100	-30<+85	°C
STORAGE TEMPERATURE	-40<+120	-40<+100	°C

**REMARKS:**

- Dimensions are in inches(mm).
- LED encapsulation is water-clear.
- This device is immune to peak noise current of 3mA.
- Caution: GaInN LEDs are class 1 ESD sensitive (MIL-STD-1686). Exceeding absolute maximum ratings may cause damage to, or possibly result in catastrophic failure of these devices. Use appropriate ESD precautions during handling and operation.
- For 200-FW4K LED chromaticity coordinate range, see drawing #502590.



<b>DDP Data Display Products</b>			
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DATE: 011212	DWN BY: LC	CHK'D BY:	APPRV'D BY:
LAST REV. DATE: -	REV LEVEL A	MATERIAL: -	
TITLE 86LS-X1			
SCALE: NONE	TOL: ± .025(.63)	.XX(.X) .XXX(.XX) .010(.25)	ANG. DWG NUMBER: - 503265