

503023

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# ELECTRO-OPTICAL CHARACTERISTICS

@ T<sub>a</sub> = 25°C

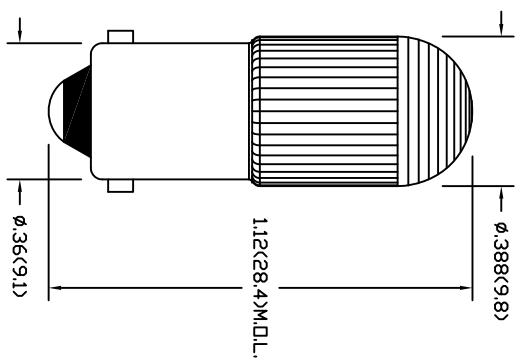
SYM	PARAMETER	X = LED COLOR							UNIT	
		RED	AMBER	GREEN	BLUE	WHITE	WARM-WHT			
I <sub>v</sub>	TYP. LUMINOUS INTENSITY W/D LENS @ I <sub>f</sub> =20mA	2.2	2.2	7.0	1.5	4.9	4.0	4.0	cd	
V <sub>o</sub>	OPERATING VOLTAGE	28	28	28	28	28	28	28	V	
I <sub>f</sub>	TYP. FORWARD CURRENT @ V <sub>f</sub> =28V	19.5~20.5							13.5~14.5	mA
I <sub>mx</sub>	MAX. FORWARD CURRENT @ V <sub>f</sub> =30V	23.0	23.0	16.5	16.5	16.5	16.5	16.5	mA	
V <sub>br</sub>	REVERSE BREAKDOWN @ I <sub>r</sub> =100µA	-	-	-	-	-	-	-	V	
λ <sub>pk</sub>	PEAK WAVELENGTH	629	592	520	465	-	-	-	nm	
λ <sub>D</sub>	DOMINANT WAVELENGTH	623	590	525	470	-	-	-	nm	

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

PARAMETER	VALUE				UNIT
	R & A	G, B, W, L			
POWER DISSIPATION	690	495			mW
OPERATING VOLTAGE	30	30			V
OPERATING TEMPERATURE	-40<+60	-30<+60			°C
STORAGE TEMPERATURE	-40<+100	-40<+100			°C

- REMARKS:
- Dimensions are in inches(mm).
  - The lens is clear-tinted with a Fresnel pattern.
  - This device is immune to peak noise current of 3mA.
  - Caution: GAIN 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 white and warm-white LED chromaticity coordinate range, see drawing #502590 and 503841 respectively.
  - This device is RoHS compliant.

REV.	DATE	BY	DESCRIPTION
A	011024	LC	INITIAL RELEASE
B	020911	LC	CHANGE R, A 3CL1 TO 1CL1
C	120731	LC	ADD WARM-WHITE & UPDATE LEDS
-	-	-	-



**DDP Data Display Products**

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DATE: 011024	DRAWN BY: LC	CHECKED BY:	APPROVED BY:
LAST REV. DATE: 120731	REV. LEVEL: C	MATERIAL THICKNESS:	-

TITLE: 1819LS-X-CX

SCALE: -	TOL: .XX(X) ± .025(.63)	ANGLE: .XXX(X) -	DRAWING NUMBER: 503023
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