

ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$   $I_f=60\text{mA}$ 

PARAMETER	(COLORS)	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH			660 (RED)		nm	
			565 (GREEN)		nm	
			430 (BLUE)		nm	
FORWARD VOLTAGE (R)			7.2	10.0	$V_f$	$I_f=20\text{mA}$
	(G)		8.4	10.0	$V_f$	$I_f=40\text{mA}$
	(B)		11.5	13.5	$V_f$	$I_f=60\text{mA}$
REVERSE VOLTAGE (R/G/B)	12				$V_r$	$I_r=100\mu\text{A}$
AXIAL INTENSITY (R/G/B)		1800/1200/300			mcd	$I_f=40\text{mA}$
VIEWING ANGLE		40			2x theta	
EPOXY LENS FINISH: WATER CLEAR						

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$  PER DIE

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*	(R/G/B)	150/150/100	mA
STEADY CURRENT	(R/G/B)	30/25/30	mA
POWER DISSIPATION	(R/G/B)	200/450/900	mW
DERATE FROM $25^\circ\text{C}$		-1.2	$\text{mW}/^\circ\text{C}$
OPERATING, STORAGE TEMP.		-30 TO +60	$^\circ\text{C}$

\*  $t < 10\mu\text{s}$ 

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE:  $X=\pm 1$  ( $\pm 0.039$ ),  $XX=\pm 0.5$  ( $\pm 0.020$ ),  $XXX=\pm 0.25$  ( $\pm 0.010$ ),  $XXXX=\pm 0.127$  ( $\pm 0.005$ ). LEAD SIZE= $\pm 0.05$  ( $\pm 0.002$ ), LEAD LENGTH= $\pm 0.75$  ( $\pm 0.030$ ). MIN.= $\frac{+0.00}{-0.00}$  MAX.= $\frac{+0.00}{-0.00}$

REV.

PART NUMBER

SSP-LXC102821BA

## CONFIDENTIAL INFORMATION

THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF SUNBRITE LEDS. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY SUNBRITE LEDS, THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

## RELIABILITY NOTE

DUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



286 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
FAX: +1.847.359.2867  
WEB: www.sunbriteleds.com

1" ROUND CLUSTER, 21 LAMPS WITH 4 PIN CONNECTOR,  
RED/GREEN/BLUE LEDS, WATER CLEAR LENS.

DRAWN:  
BC

CHECKED:

APPROVED:

DATE: 8.9.01  
PAGE: 1 OF 1

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Lumex:

[SSP-LXC102821BA](#)