

UNCONTROLLED DOCUMENT

PART NUMBER  
SSP-CS83912

REV.  
A

CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #E11064	12.3.03

ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$   $V_f=12\text{V}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH				nm	
FORWARD VOLTAGE		12.0	14.0	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_r=100\mu\text{A}$
AXIAL INTENSITY *		500		mcd	$V_f=12\text{V}$
VIEWING ANGLE		50		2x theta	
EMITTED COLOR:	WHITE				
EPOXY LENS FINISH:	WATER CLEAR LENS				

\* PER LED

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

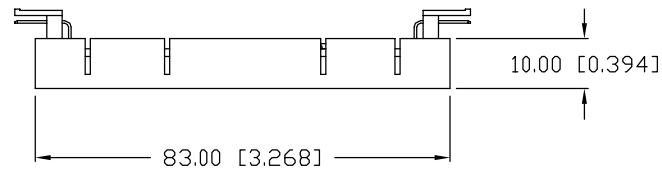
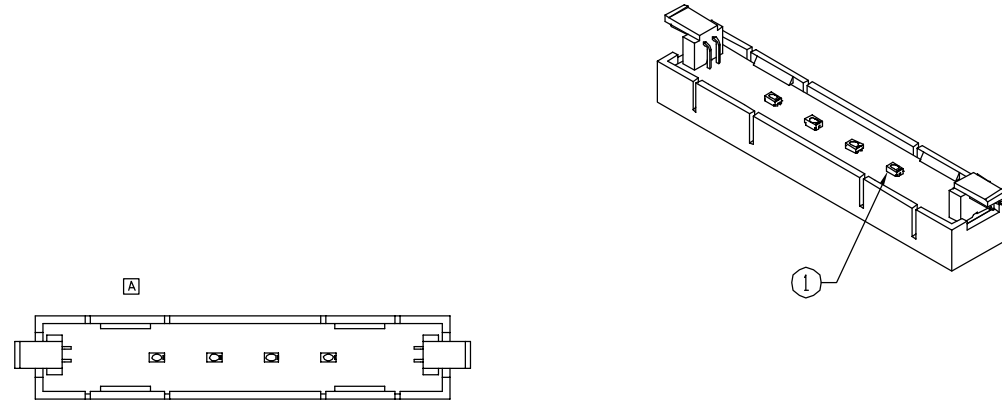
PARAMETER	MAX	UNITS
PEAK FORWARD VOLTAGE	14	V
STEADY CURRENT	70	mA
POWER DISSIPATION	1200	mW
DERATE FROM $25^\circ\text{C}$	-1.2	$\text{mW}/^\circ\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$

NOTES:

- FOUR LEDS PER STRIP.

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



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MODULAR STRIP LIGHT, ULTRA WHITE LEDS.

**RELIABILITY NOTE**  
OUR 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.

DRAWN: BC	CHECKED:	APPROVED:	DATE: 8.1.02 PAGE: 1 OF 1
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