

DATE	REVISIONS	REV
3-4-92	ADDED ANODE NOTE.	A
8-23-94	UPDATED SPECS.	B
3-1-95	UPDATED SPECS.	C
5-27-98	E.C.N #10BRDR./ & REDRAWN	D

DRAWING NUMBER  
SSF-LX453GD-99

REV  
D

ELECTRO-OPTICAL CHARACTERISTICS  $T_A = 25^\circ\text{C}$   $I_f = 20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		565 (GREEN)		nm	
FORWARD VOLTAGE		2.2	2.6	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_r = 100\mu\text{A}$
AXIAL INTENSITY		30		mcd	$I_f = 20\text{mA}$
VIEWING ANGLE		60		$2 \times \text{theta}$	
EMITTED COLOR:	GREEN				
EPOXY LENS FINISH:	GREEN DIFFUSED				

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

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	25	mA
POWER DISSIPATION	105	mW
DERATE FROM $25^\circ\text{C}$	-1.2	mW/ $^\circ\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP. 2.0mm FROM BODY	+260	$^\circ\text{C}$ 3 SEC. MAX

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

#### 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.

D

**LUMEX**  
INCORPORATED

290 E. HELLEN ROAD  
PALATINE, ILLINOIS 60067  
(847) 359-2790

CONFIDENTIAL INFORMATION  
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INCORPORATED. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INCORPORATED, 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.

DATE: 1-23-92	DWN:	CHK'D:	APPD:
SCALE: N/A			

T-5mm (T-1 3/4) RIGHT ANGLE LED INDICATOR, GREEN,  
ONE PIECE EPOXY, GREEN DIFFUSED LENS.

PAGE 1 OF 1

DRAWING NUMBER  
SSF-LX453GD-99

REV  
D

UNLESS OTHERWISE SPECIFIED TOLERANCE IS  $\pm .25\text{mm}$  ( $\pm 0.010"$ ) MS/CK/BC

