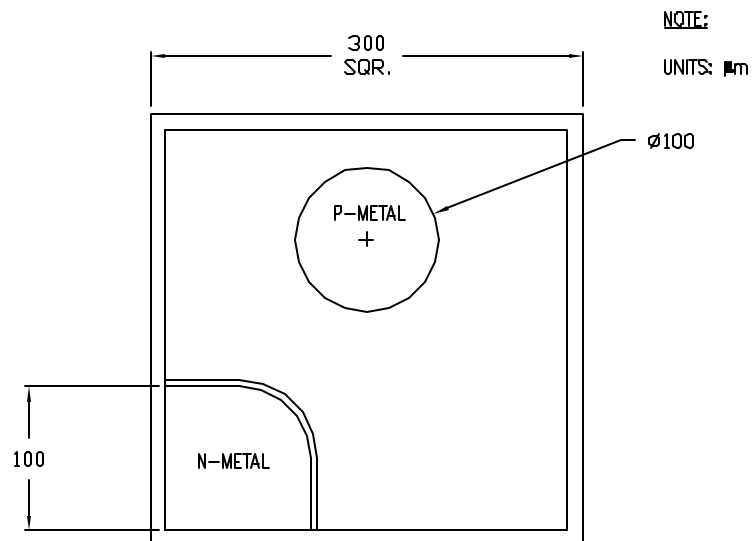


UNCONTROLLED DOCUMENT

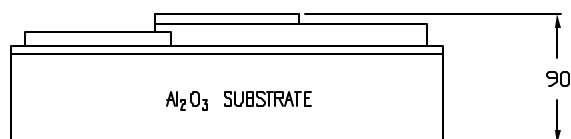
PART NUMBER
SSD-LX012E505GGND

REV.



ELECTRO-OPTICAL CHARACTERISTICS:

PARAMETER	SYMBOL	TEST COND	MIN	TYP	MAX	UNITS
FORWARD VOLTAGE	V_f	$I_f=20\text{mA}$	2.8		3.8	V
REVERSE CURRENT	I_r	$V_r=5\text{V}$			2	μA
DOMINANT WAVELENGTH ⁽¹⁾	λ_d	$I_f=20\text{mA}$	485	505	515	nm
SPECTRA HALF-WIDTH	$\Delta\lambda$	$I_f=20\text{mA}$		35		nm
LUMINOUS INTENSITY	I_v	$I_f=20\text{mA}$	A	136		mcd
			B	163		
			C	196		
			D	235		
			E	282		

(1) Wavelength uniformity is $\lambda_d \pm 5\text{nm}$.

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

UNCONTROLLED DOCUMENT

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

REV.

PART NUMBER
SSD-LX012E505GGND

InGaN EMERALD GREEN LED CHIP.

CONFIDENTIAL INFORMATION

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

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.



290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

DRAWN BY:

CHECKED BY:

APPROVED BY:

DATE: 3.12.03

PAGE: 1 OF 1

SCALE: N/A

CT