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Products > LEDs > Surface Mount > Axial Lead Gull Wing

Features / Options

Applications / Uses

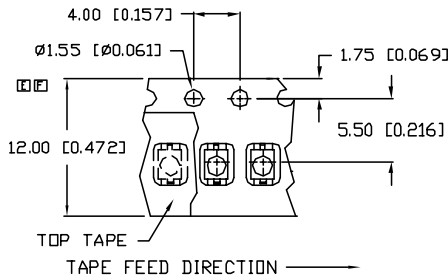
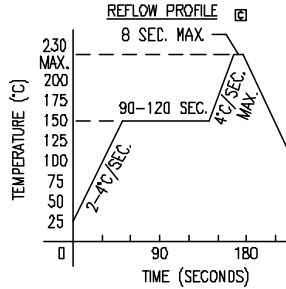
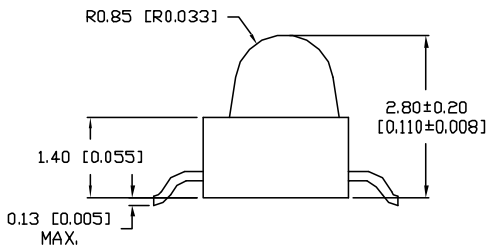
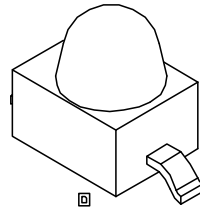
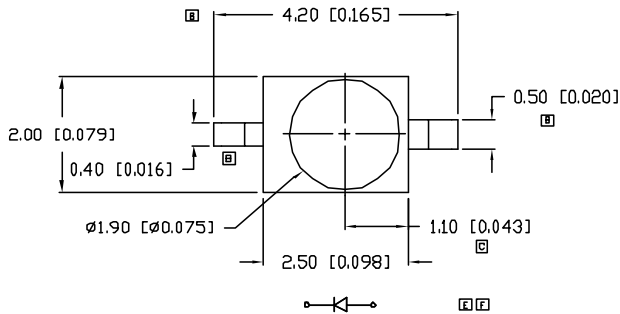


- ▶ State-of-the-Art, High Brightness Chip Technology
- ▶ Choice of Colors and Lens Finishes
- ▶ Lead Frame / Lens Casting Reliability
- ▶ Easy-to-Solder Leads, Tin Finish
- ▶ Available Bulk or on Tape and Reel
- ▶ Lead Trimming and Forming Available
- ▶ Custom Shapes, Easily Tooled, Low Minimum

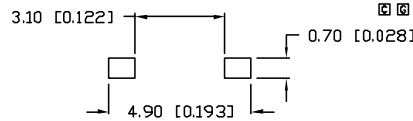
- ▶ Board or Panel Indication or Illumination
- ▶ Annunciator and Control Panels
- ▶ Telecom Switches and Central Station Equipment
- ▶ Large Panel Indicators

Part Number:	Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta		
SSL-LXA228AC-TR11	HIGH	AlInGaP	Amber	610	Clear	2.1	80	25		—
SSL-LXA228GC-TR11	STANDARD	GaP	Green	565	Clear	2.1	30	25		—
SSL-LXA228IC-TR11	HIGH	AlInGaP	Red	630	Clear	2.1	80	25		—
SSL-LXA228SBC-TR11	STANDARD	SiC	Blue	430	Clear	4.5	100	25		—
SSL-LXA228SIC-TR11	HIGH	AlInGaP	Red	636	Clear	2	475	25		—
SSL-LXA228SOC-TR11	HIGH	AlInGaP	Orange	610	Clear	2	700	25		—
SSL-LXA228SRC-TR11	STANDARD	GaAlAs	Red	660	Clear	1.8	600	25		—
SSL-LXA228SUGCTR11	HIGH	AlInGaP	Green	574	Clear	2.2	200	25		—
SSL-LXA228SYC-TR11	HIGH	AlInGaP	Yellow	590	Clear	2	300	25		—
SSL-LXA228UPGCTR11	HIGH	InGaN	Green	525	Clear	3.5	1400	25		—

UNCONTROLLED DOCUMENT



RECOMMENDED SOLDER PAD LAYOUT



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

PART NUMBER
SSL-LXA228SRC-TR11

REV.

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	CHG'D LENS LOCATION TO FIT SR STYLE.	10.12.95
B	ADDED LEAD WIDTHS, UPDATED LEAD O.A.L.	11.7.95
C	E.C.N. #10550. & #10BRDR	10.21.99
D	E.C.N. #10695.	1.1.01
E	E.C.N. #10744.	5.31.01
F	E.C.N. #10784.	9.7.01
G	E.C.N. #11146.	7.8.04
H	E.C.N. #11170.	9.23.04
I	E.C.N. #11148.	11.15.06

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		660		nm	
FORWARD VOLTAGE		1.7	2.2	V _f	
REVERSE VOLTAGE	5.0			V _r	I _r =100µA
AXIAL INTENSITY		600		mcad	I _f =20mA
VIEWING ANGLE		25		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	160	mA
STEADY CURRENT	25	mA
POWER DISSIPATION	60	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +85	°C

* I_t < 10µs

NOTES:

- 1,000 PIECES PER REEL.
- THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.



UNCONTROLLED DOCUMENT

REV.	PART NUMBER SSL-LXA228SRC-TR11
AXIAL LED, GULL WING LEADS, 660nm SUPER RED, WATER CLEAR LENS, TAPE AND REEL.	

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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 BY: JC	CHECKED BY:	APPROVED BY:	DATE: 11.15.06 PAGE: 1 OF 1 SCALE: N/A
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