Products > LEDs > Surface Mount > Ceramic > 0805 Package

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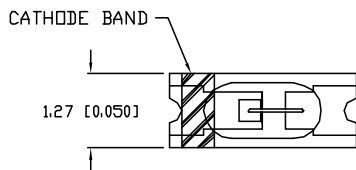
► State-of-the-Art, High Brightness Chip Technology
► Choice of Colors and Lens Finishes
► Lead Frame / Lens Casting Reliability
► Easy-to-Solder Leads, Tin Finish
► Available Bulk or on Tape and Reel
► Lead Trimming and Forming Available
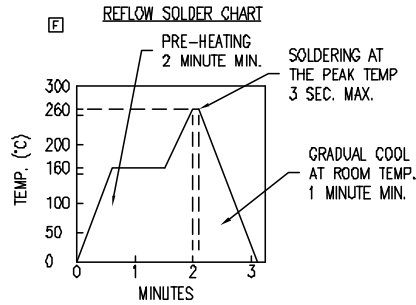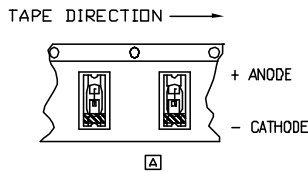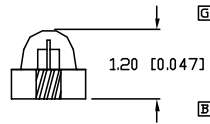► Custom Shapes, Easily Tooled, Low Minimum

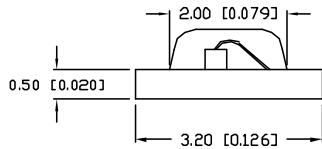## Applications / Uses
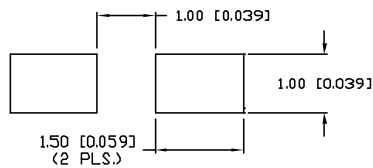
► Board or Panel Indication or Illumination
► Annunciator and Control Panels
► Telecom Switches and Central Station Equipment
► Large Panel Indicators

Part Number:		Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta		
CCL-LX45GT		STANDARD	GaP	Green	565	Color Tinted	2.2	7.0	180		—
CCL-LX45IT		STANDARD	GaAsP	Red	635	Color Tinted	2.1	7.2	180		—
CCL-LX45SRT		STANDARD	GaAlAs	Red	660	Color Tinted	1.8	8.0	180		—
CCL-LX45YT		STANDARD	GaAsP	Yellow	585	Color Tinted	2.3	7.0	180		—

UNCONTROLLED DOCUMENT

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	ADDED TAPE AND REEL SPEC./	11−20−95
B	E.C.N. #10105./	12−18−95
C	E.C.N. #10143./	4−8−96
D	E.C.N. #10176./	5−30−96
E	E.C.N. #10BRDR. & REDRAWN.	11−9−98
F	E.C.N. #10511./ ADDED SOLDER CHART.	4−28−99
G	E.C.N. #10524./ CHANGED HEIGHT.	6−17−99
H	E.C.N. #11148.	12.04.06

CATHODE BAND

1.27 [0.050]

SOLDER PAD LAYOUT

1.00 [0.039]

1.00 [0.039]

1.50 [0.059]
(2 PLS.)

2.00 [0.079]

0.50 [0.020]

3.20 [0.126]

G

1.20 [0.047]

B

TAPE DIRECTION

+ ANODE

− CATHODE

A

REFLOW SOLDER CHART

F

PRE−HEATING 2 MINUTE MIN.

SOLDERING AT THE PEAK TEMP 3 SEC. MAX.

GRADUAL COOL AT ROOM TEMP. 1 MINUTE MIN.

TEMP. (°C): 300, 260, 200, 160, 100, 50, 0

MINUTES: 0, 1, 2, 3

ELECTRO−OPTICAL CHARACTERISTICS $T_A=25°C$ $I_f=20mA$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		585 (YELLOW)		nm	
FORWARD VOLTAGE		2.3	2.5	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu A$
AXIAL INTENSITY		7.0		mcd	$I_f=20mA$
VIEWING ANGLE		180			2x theta
EMITTED COLOR:	YELLOW				
EPOXY LENS FINISH:	YELLOW TRANSPARENT				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	800	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	130	mW
DERATE FROM 25°C	−2.4	mW/°C
OPERATING TEMP.	−30 TO +80	°C
STORAGE TEMP.	−40 TO +120	°C

* $t<10\mu S$

H

(Pb)

UNCONTROLLED DOCUMENT

*UNLESS OTHERWISE SPECIFIED TOLERANCE IS ±0.25mm (±0.010")

LUMEX INCORPORATED

DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE: 12.04.06
JC			PAGE: 1 OF 1
			SCALE: N/A