



We Tame Photons to Work for You!



Products > LEDs > Surface Mount > Ceramic > 0805 Package

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

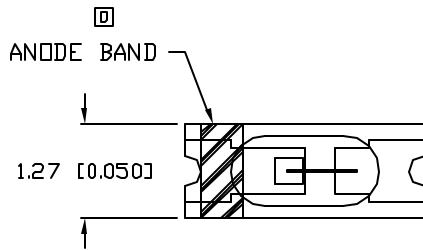
- ▶ Board or Panel Indication or Illumination
- ▶ Annunciator and Control Panels
- ▶ Telecom Switches and Central Station Equipment
- ▶ Large Panel Indicators

Part Number:	Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta		
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		—

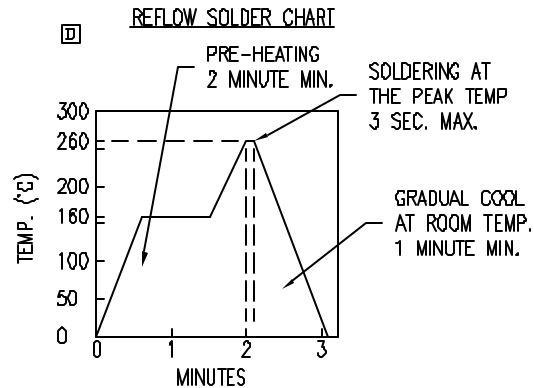
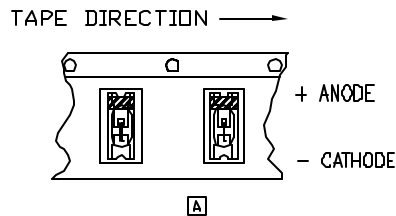
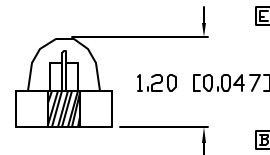
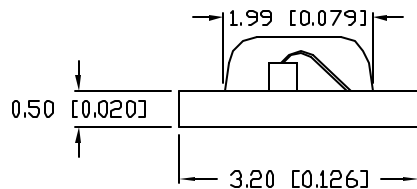
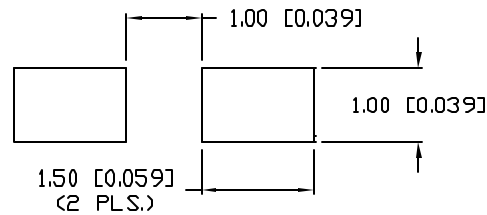
UNCONTROLLED DOCUMENT

PART NUMBER
CCL-LX45SRT

REV.
F



SOLDER PAD LAYOUT



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. #10BRDR. & REDRAWN.	11-9-98
D	E.C.N. #10511./ POLARITY MARK SWITCHED.	4-28-99
E	E.C.N. #10524./ CHANGED HEIGHT.	6-17-99
F	E.C.N. #11148.	12.04.06

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		660 (RED)		nm	
FORWARD VOLTAGE		1.8	2.1	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_f=100\mu\text{A}$
AXIAL INTENSITY		8.0		med	$I_f=20\text{mA}$
VIEWING ANGLE		180		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	RED 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	-2.7	mW/°C
OPERATING TEMP.	-30 TO +80	°C
STORAGE TEMP.	-40 TO +120	°C

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

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.038), 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 -DECIMAL PRECISION

REV.
F

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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: 11.20.95
PAGE: 1 OF 1
SCALE: N/A

CERAMIC CHIP, 660nm SUPER RED SURFACE MOUNT LED,
RED TRANSPARENT LENS, TAPE AND REEL.