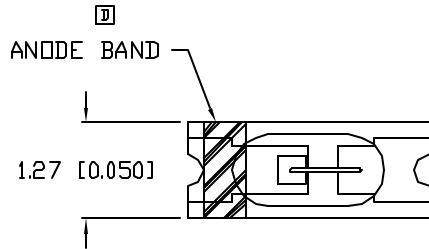


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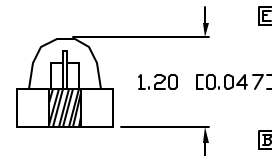
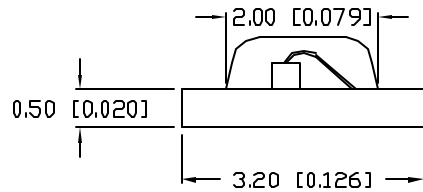
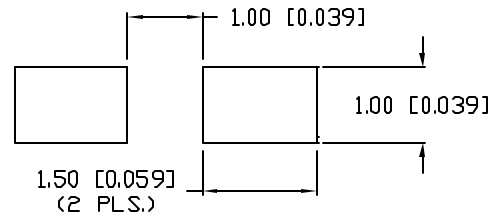
PART NUMBER  
CCL-LX45SRT

REV.  
E

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



SOLDER PAD LAYOUT



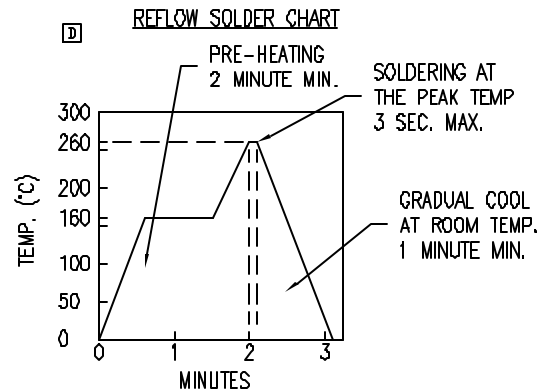
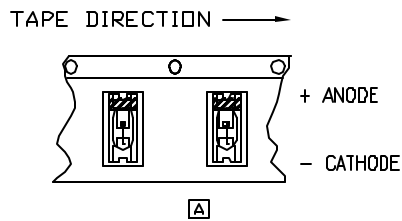
ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$   $I_f=20\text{mA}$

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		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		180		$2\alpha$ theta	
EMITTED COLOR:	RED				
EPXY LENS FINISH:	RED TRANSPARENT				

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

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	800	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	130	mW
DERATE FROM $25^\circ\text{C}$	-2.7	mW/ $^\circ\text{C}$
OPERATING TEMP.	-30 TO +80	$^\circ\text{C}$
STORAGE TEMP.	-40 TO +120	$^\circ\text{C}$

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



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\*UNLESS OTHERWISE SPECIFIED TOLERANCE IS  $\pm 0.25\text{mm}$  ( $\pm 0.010''$ )

REV.  
E

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

**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: BC	CHECKED BY:	APPROVED BY:	DATE: 1-16-95
			PAGE: 1 OF 1
			SCALE: N/A