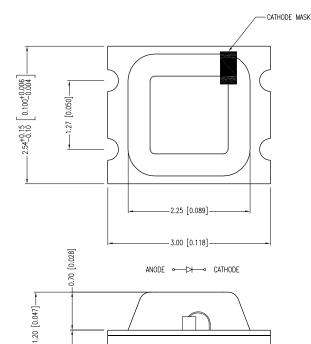
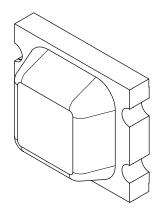
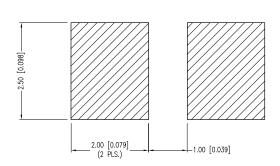
UNCONTROLLED DOCUMENT



-1.00 [0.039] (2 PLS.)





PART NUMBER	CCL-CRS10SA	REV.	E
DATE	E.C.N. NUMBER AND REVISION COMMENTS		
12.11.98	E.C.N. #10484. ADDED SOLDER SPECS.		Α
01.12.01	E.C.N. #10695. & REDRAWN.		В
03.14.03	E.C.N. #10967.		С
12.01.06	E.C.N. #11148.		D
06.17.11	E.C.N. #10BRDR. & REDRAWN/#11730.		E

ELECTRO-OPTICAL	CHARACTERISTICS	TA =25°C	If=20mA		
PARAMETER	MIN	TYP.	MAX	UNITS	TEST COND
PEAK WAVELENGTH		610		nm	
FORWARD VOLTAGE		2.0	2.5	Vf	
REVERSE VOLTAGE	4.0			Vr	lr=100μA
AXIAL INTENSITY		100		mcd	If=20mA
VIEWING ANGLE		180		2x theta	
EMITTED COLOR:	AMBER				
EPOXY LENS FINISH	H: WATER	CLEAR			

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	100	mA
STEADY CURRENT	25	mA
POWER DISSIPATION	65	mW
DERATE FROM 25°C	33	mW/°C
OPERATING TEMP.	-30 TO +75	•C
STORAGE TEMP.	-40 TO +85	·C

* t<10µS

SOLDER HEAT PROOF TEST:	DIPPING FOR 5 SEC. AT 250°C, 2 TIMES.
THERMAL SHOCK TEST:	15 MIN. AT +90°C, AND 15 MIN. AT -30°C, 25 CYCLES.
VIBRATION TEST:	50Hz, FULL AMPLITUDE WIDTH; 1.5mm, 2 HOURS VERTICALLY AND HORIZONTALLY, RESPECTIVELY.
MOISTURE TEST:	Ta=60°C, Rh=90%, 1,000 HOURS.
IRON SOLDERING:	20W IRON (SHARP TIP), 280-320°C, 5 SEC. MAX.,
SOLDER DIP METHOD:	TEMP. IS 240-260°C AND TIME IS WITHIN 10 SEC.
RE-FLOW SOLDERING:	SEE CHART.

E C CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 2A STANDARDS



[0.016] PLS.)

0.40

*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 (±0.005). LEAD SIZE=±0.05 (±0.000), X.XX=±0.127 (±0.005).						UNCONTROLLED DOCUMENT			
		290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 FAX: +1.847.359.6538	3.011111 X 2.311111 CENAMIC SONTACE MOONT EED, OTOTILI SOFER AMBER EED, WATER CELAN EENS.	DATE:	06.17.11	DRAWN BY:	AB		
	LUMEX		**THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.**		1 OF 2	CHKD BY:	KF		
			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	SCALE:	NTS	APRVD BY:	SS		
Creating LED and LCD Solutions Together™	WEB: WWW.LUMEX.COM		UNIT:	mm [INCH]	(Pb)				

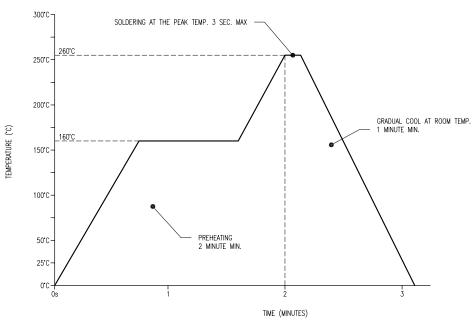
PART NUMBER

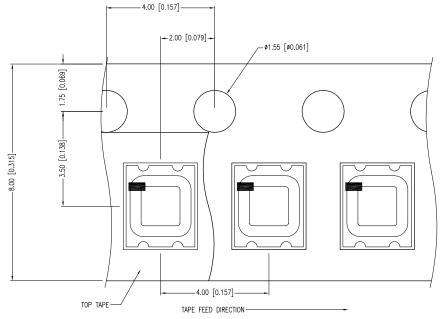
CCL-CRS10SA

REV.

Ε







NOTES:

- 1. PART SUPPLIED ON SUPER 8 TAPE AND REEL, 3,000 PIECES PER REEL.
- 2. THE CATHODE IS ORIENTED TOWARDS THE
- TAPE SPROCKET HOLE.
- 3. WHITE CERAMIC CARRIER.

*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= $^{+DECIMAL}_{-0.00}$ PRECISION MAX.= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}_{-0.00}$ PRECISION ARE: X=±1 (±0.039), X.XX=±0.5 (±0.020), X.XX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD SIZE=±0.05 (±0.003). MIN= $^{+0.00}_{-0.00}$ MAX.= $^{+0.$ UNCONTROLLED DOCUMENT



290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 FAX: +1.847.359.6538

3.0mm x 2.5mm CERAMIC SURFACE MOUNT LED, 610nm SUPER AMBER LED, WATER CLEAR LENS.

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DATE: 06.17.11 DRAWN BY: AΒ 2 OF 2 PAGE: CHKD BY: KF SCALE: NTS APRVD BY: SS (19) UNIT: mm [INCH]