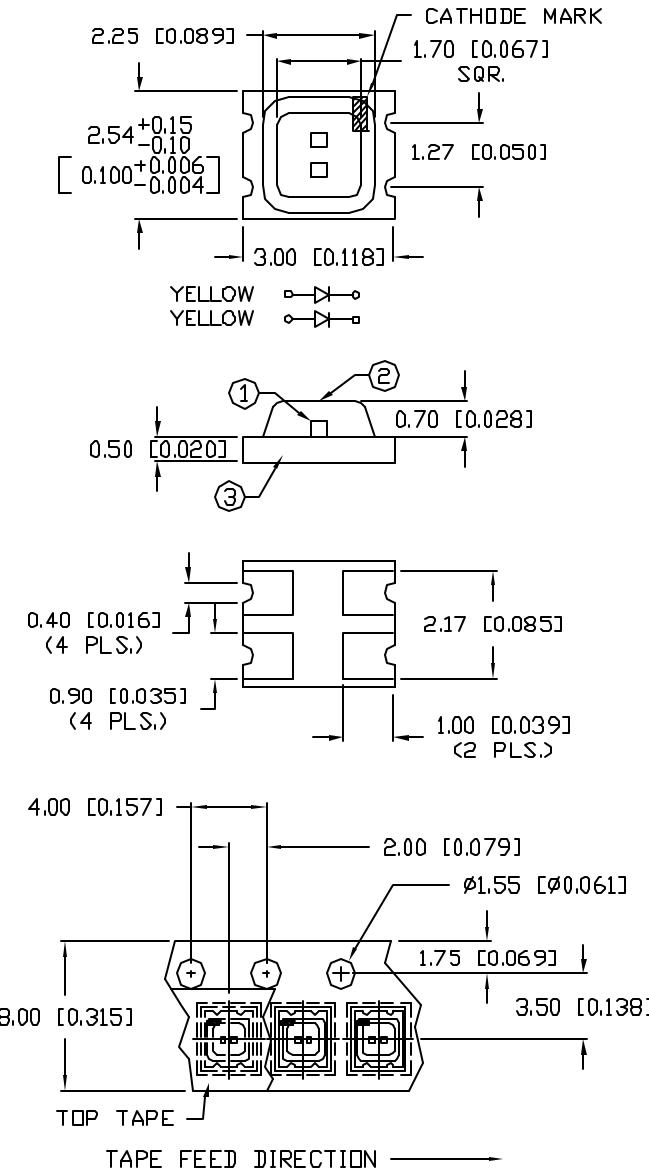


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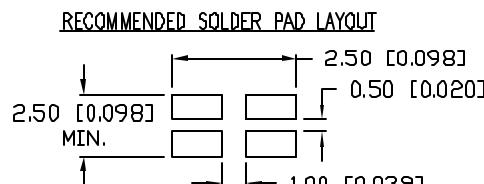
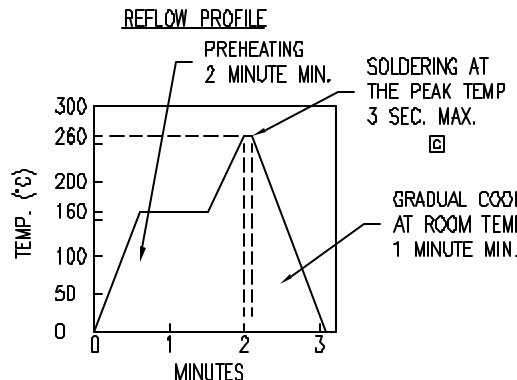
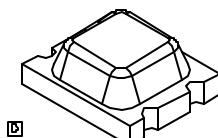


*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (± 0.039), XX=±0.5 (± 0.020), XXX=±0.25 (± 0.010), XXXX=±0.127 (± 0.005). LEAD SIZE=±0.05 (± 0.002), LEAD LENGTH=±0.75 (± 0.30), MIN= $^{+0.00}$ MAX= $^{+0.00}$ DECIMAL PRECISION

REV.	PART NUMBER
D	CCL-CRS10YY
3.0mm x 2.5mm CERAMIC SURFACE MOUNT LED, 585nm YELLOW LEDS, WATER CLEAR LENS.	

CONFIDENTIAL INFORMATION
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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.



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.

CAUTION: MOISTURE SENSITIVE DEVICE

1. SHELF LIFE IN SEALED BAG: 12 MONTHS AT <40°C AND <90% RELATIVE HUMIDITY (RH).
2. AFTER THIS BAG IS OPENED, DEVICES HAVE TO BE MOUNTED WITHIN 48 HOURS OR STORED AT <30% RH.

PART NUMBER			REV.
CCL-CRS10YY			D
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE	
A	REDRAWN.	4.27.93	
B	E.C.N. #10390 & #10BRDR & REDRAWN.	10.2.98	
C	E.C.N. 10484. ADDED SOLDER PROFILE	12.11.98	
D	E.C.N. #10695. & REDRAWN IN 3D.	1.12.01	

ELECTRO-OPTICAL CHARACTERISTICS TA=25°C If=20mA				
PARAMETER	MIN	TYP	MAX	UNITS
PEAK WAVELENGTH		585 (YELLOW)		nm
FORWARD VOLTAGE		2.1	2.8	V _f
REVERSE VOLTAGE	4.0			V _r
AXIAL INTENSITY		8		mcad
VIEWING ANGLE		180		2x theta
EMITTED COLOR:	YELLOW			
EPOXY LENS FINISH:	WATER CLEAR			

LIMITS OF SAFE OPERATION AT 25°C			
PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*		100	mA
STEADY CURRENT		25	mA
POWER DISSIPATION		70	mW
DERATE FROM 25°C		-0.33	mW/°C
OPERATING TEMP.	-30 TO +75		°C
STORAGE TEMP.	-40 TO +85		°C

* <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.

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CT			1.21.93