Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!
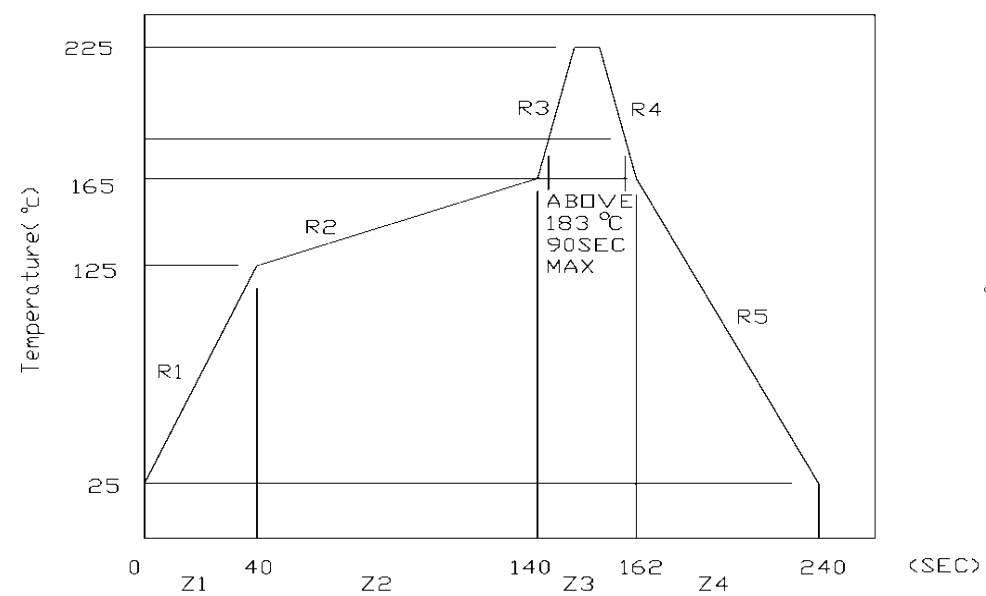
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
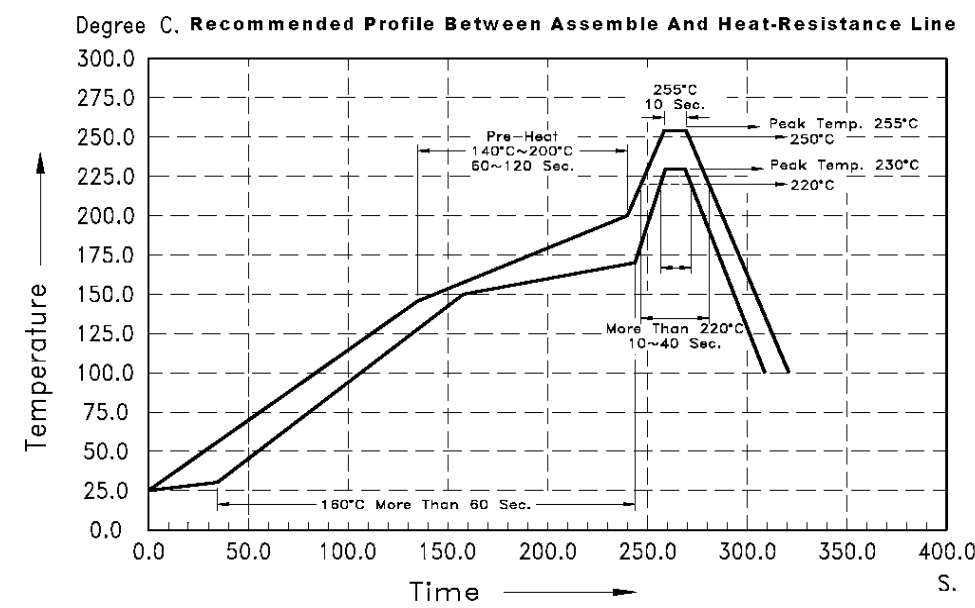Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Revisions Table

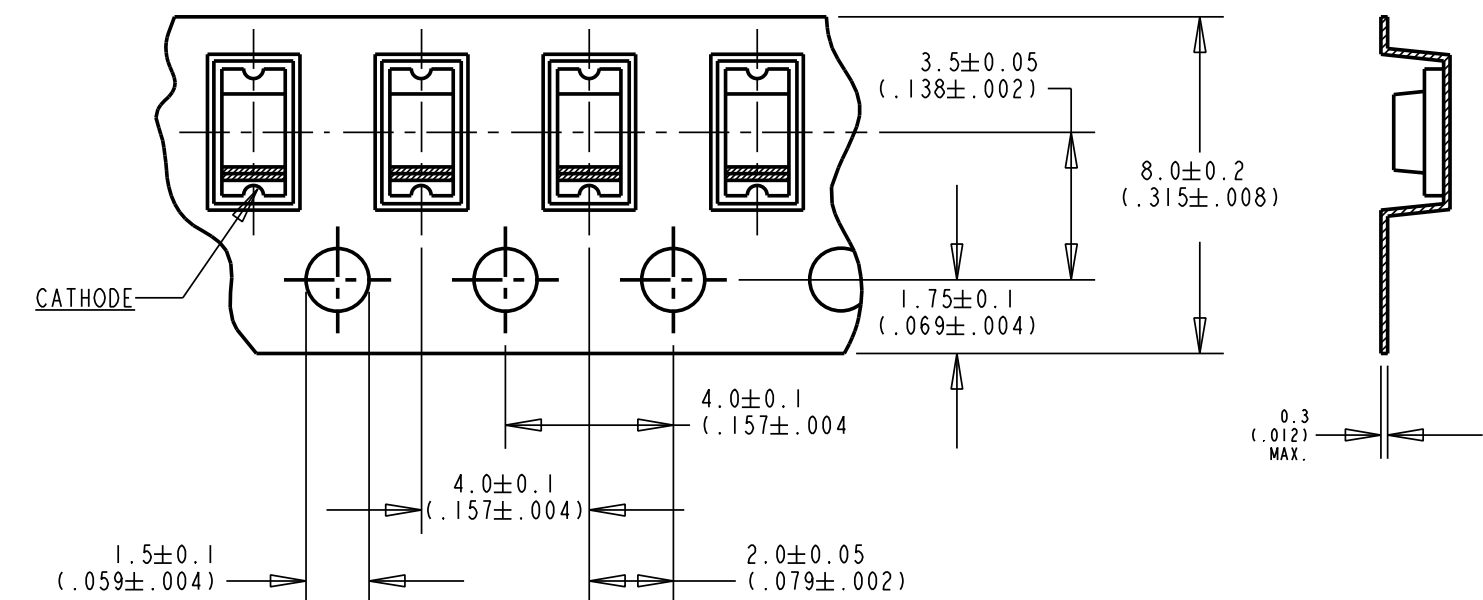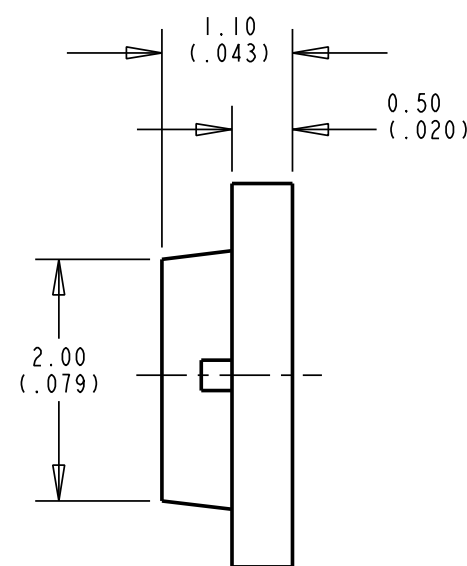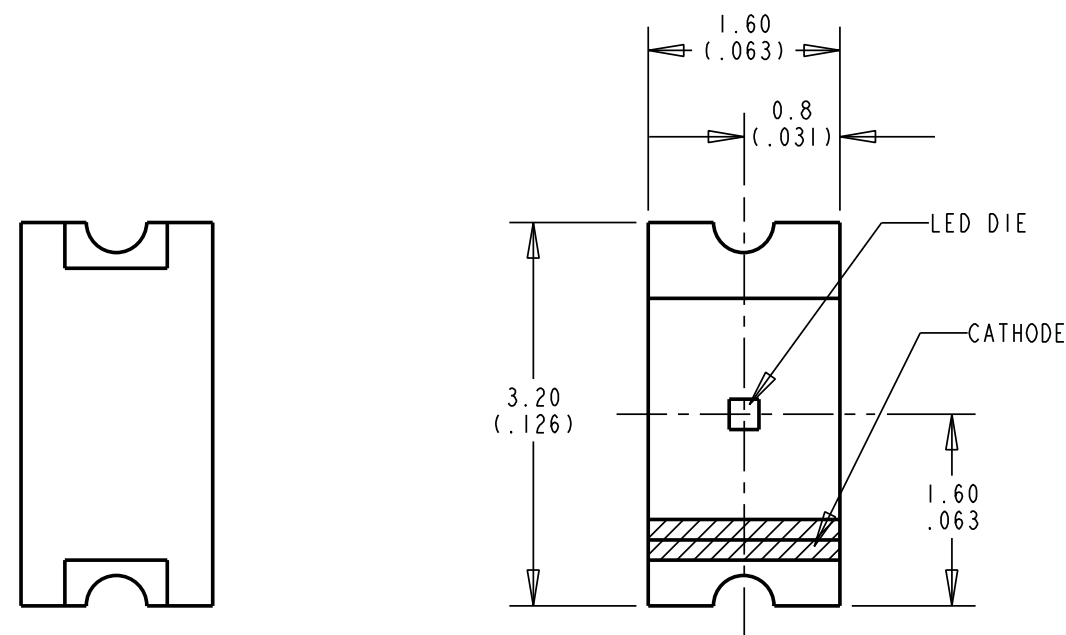| REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	———	NEW RELEASE	TC	DC	N.O.	4-1-99
B	———	ADDED NOTE 9.	TC	DC	N.O.	6-9-99
C	———	ADDED RoHS COMPLIANT "F" SUFFIX P/Ns, RoHS AND NORMAL REFLOW PROFILE & RoHS NOTE; UPDATED FORMAT; REVISED LEAD FINISH AND PACKAGING NOTES	TWC			

REFLOW PROFILE FOR
NORMAL PARTS

Degree C. **Recommended Profile Between Assemble And Heat-Resistance Line**

Pre-Heat
140°C~200°C
60~120 Sec.

255°C
10 Sec.

Peak Temp. 255°C
250°C

Peak Temp. 230°C
220°C

More Than 220°C
10~40 Sec.

160°C More Than 60 Sec.

REFLOW PROFILE FOR
RoHS COMPLIANT PARTS

NOTES:
1. EPOXY COLOR: WATER CLEAR.
2. DIE: GaP.
3. LEADS: GOLD (Au) PLATED ON COPPER ALLOY (Cu) ON FR-4 SUBSTRATE
4. SOLDER ADHERANCE: BOTH LEADS PER MIL-STD-202E, METHOD 208C.
5. PART TAPED AND REELED PER EIA-RS-481-1.
6. PART SUPPLIED 3000 DEVICES PER 7" DIAMETER REEL, ONE REEL PER SEALED ALUMINUM BAG WITH DESICCANT.
7. LABELING FOR REEL AND OUTSIDE OF ALUMINUM FOIL BAG: DIALIGHT P/N, QUANTITY PER REEL, DATE CODE, INTENSITY BIN CODE, LOT NUMBER AND COUNTRY OF ORIGIN.
8. DIALIGHT P/N: 597-3302-607, -602 AND 597-3302-607F, -602F
9. TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.
10. PART NUMBER WITH "F" SUFFIX ENDING IS RoHS COMPLIANT. EXAMPLE: 597-3302-607F. THE REEL AND BAG ARE MARKED WITH "RoHS COMPLIANT" LABEL OR EQUIVALENT MARKINGS.
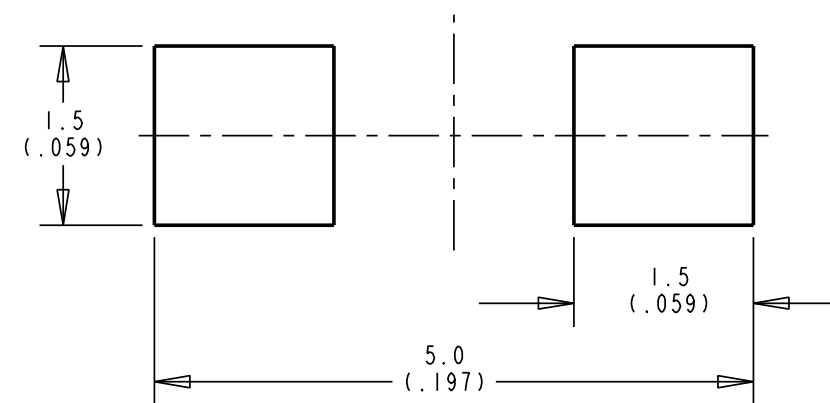

LED DIE
CATHODE

1.60 (.063)
0.8 (.031)
3.20 (.126)
1.60 .063

1.10 (.043)
0.50 (.020)
2.00 (.079)

PACKAGE DIMENSIONS OF TAPE AND REEL

CATHODE
3.5±0.05 (.138±.002)
8.0±0.2 (.315±.008)
1.75±0.1 (.069±.004)
4.0±0.1 (.157±.004)
4.0±0.1 (.157±.004)
2.0±0.05 (.079±.002)
1.5±0.1 (.059±.004)
0.3 (.012) MAX.

ABSOLUTE MAXIMUM RATINGS AT 25° C AMBIENT

	GREEN	UNITS
POWER DISSIPATION	100	mW
DERATE LINEARLY FROM 50° C	0.6	mA/°C
CONTINUOUS FORWARD CURRENT	30	mA
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)	120	mA
REVERSE VOLTAGE	5	V
OPERATING TEMPERATURE	-55 TO +85	°C
STORAGE TEMPERATURE	-55 TO +85	°C
WAVE SOLDERING CONDITION	260° C FOR 5 SEC	
INFRARED SOLDERING CONDITION	260° C FOR 5 SEC	
VAPOR PHASE SOLDERING CONDITION	215° C FOR 3 MIN	

OPERATING CHARACTERISTICS AT 25° C AMBIENT

LED CHARACTERISTICS	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY (I_V)	4.0	8.0	30.0	mcd	$I_F = 10$ mA
VIEWING ANGLE (2 Θ 1/2)		130		DEGREES	
PEAK WAVELENGTH (λ_p)		565		nm	MEASUREMENT @ PEAK
DOMINANT WAVELENGTH (λ_d)		569		nm	
SPECTRAL LINE HALF-WIDTH ($\Delta\lambda$)		30		nm	
FORWARD VOLTAGE (V_F)		2.1	2.6	V	$I_F = 20$ mA
REVERSE CURRENT (I_R)			100	µA	$V_R = 5V$
CAPACITANCE (C)		35		pF	$V_R = 0$ V, f=1 MHz

1.5 (.059)
1.5 (.059)
5.0 (.197)

SUGGEST SOLDERING PAD DIMENSIONS

SCALE: DRAWING SCALE
ALL DIM'S IN: INCHES (MM)
TOLERANCES: UNLESS OTHERWISE SPECIFIED
FRACTIONS: ±1/64
DECIMALS (.XX): ±.01
DECIMALS (.XXX): ±.005
DECIMALS (.XXXX): ±.0005
ANGLES: ±1°
FINISH:

DRAWING NUMBER: C-16509
REV: C
TITLE: GREEN SMT LED
MATERIAL:

Dialight
1501 ROUTE 34 SOUTH
FARMINGDALE, NJ 07727

FSCM 83330
SHEET 1 OF 1
FAMILY TABLE: