

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

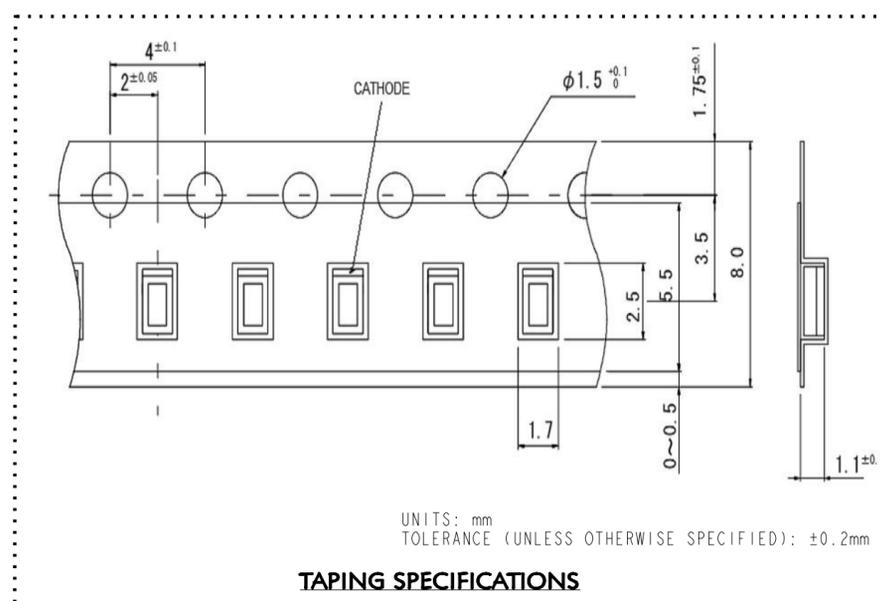
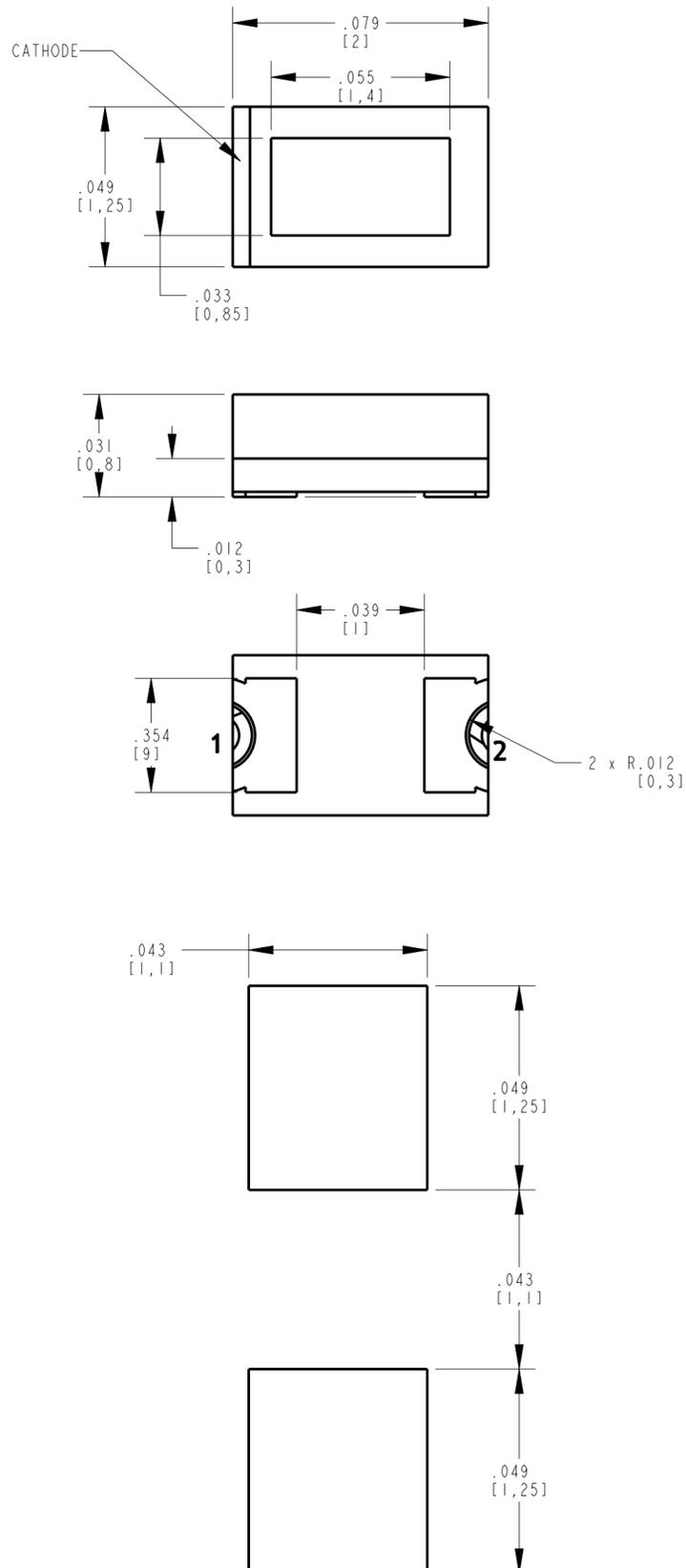
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

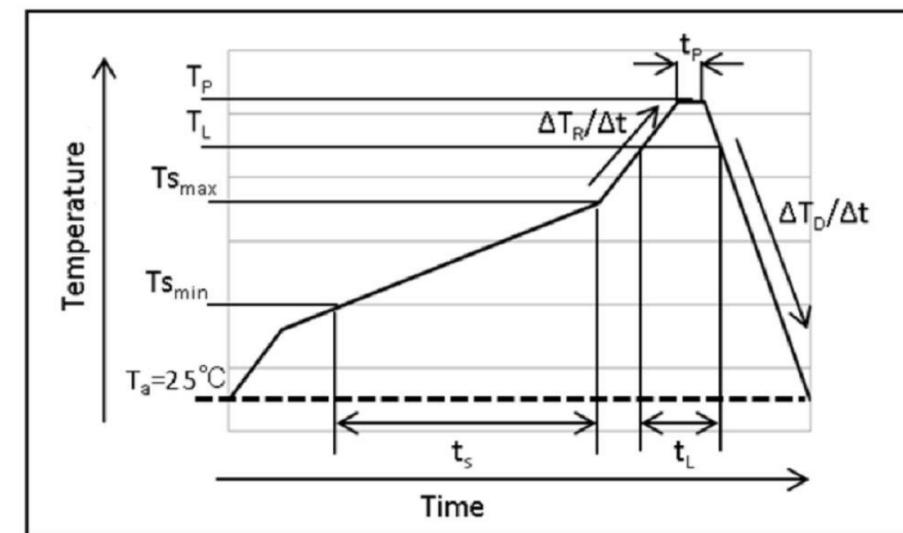
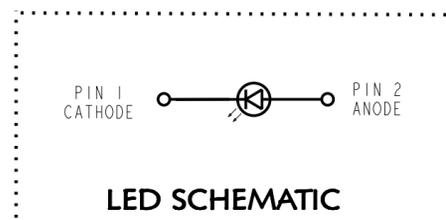
PART NUMBER	LED COLOR
597-5006-502F, 507F	RED (630nm)
597-5036-502F, 507F	RED (620nm)
597-5206-502F, 507F	ORANGE
597-5406-502F, 507F	YELLOW
597-5506-502F, 507F	YELLOW GREEN
597-5316-502F, 507F	GREEN (560nm)
597-5606-502F, 507F	BLUE
597-5326-502F, 507F	GREEN (527nm)
597-5906-502F, 507F	WHITE

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	BP	—	NO	03-22-18



ABSOLUTE MAXIMUM RATINGS AT 25°C						
LED COLOR	POWER DISSIPATION (mW)	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT (mA)	REVERSE VOLTAGE (V)	OPERATING TEMPERATURE (°C)	STORAGE TEMPERATURE (°C)
RED (630nm)	75	30	100	5	-40 TO +85	-40 TO +100
RED (620nm)						
ORANGE						
YELLOW						
YLW GREEN	81	20	12	-40 TO +100	-40 TO +100	
GREEN (560nm)						
GREEN (527nm)	70					
BLUE	68					
WHITE						

OPERATING CHARACTERISTICS AT 25°C								
LED COLOR	IF (mA)	LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			REVERSE CURRENT	FORWARD VOLTAGE
		MIN	TYP	MIN	TYP	MAX	MAX	TYP
RED (630nm)	20	40	75	625	630	635	10 @ VR=5V	2 @ IF=20mA
RED (620nm)		63	120	615	620	625		
ORANGE		100	160	602	605	608		
YELLOW		587	590	593				
YLW GREEN	25	45	569	572	575			2.2 @ IF=20mA
GREEN (560nm)	6.3	16	557	560	563			
GREEN (527nm)	56	140	519	527	536			3 @ IF=5mA
BLUE	5	14	36	464	470	476	10 @ VR=12V	2.9 @ IF=5mA
WHITE		56	140	(X,Y) (0.30,0.28)				



MARK	MEANING	CONDITIONS
T <sub>s_max</sub>	MAXIMUM OF PRE-HEATING TEMP.	180 °C
T <sub>s_min</sub>	MINIMUM OF PRE-HEATING TEMP.	140 °C
t <sub>s</sub>	TIME FROM T <sub>s_min</sub> TO T <sub>s_max</sub>	OVER 60 sec.
T <sub>L</sub>	REFERENCE TEMP	230-250 °C
t <sub>L</sub>	RETENTION TIME FOR T <sub>L</sub>	WITHIN 40 sec.
T <sub>P</sub>	PEAK TEMP	250 °C (MAX)
t <sub>P</sub>	TIME FOR PEAK TEMP	WITHIN 10 sec.
ΔT <sub>R</sub> /Δt	TEMP. RISING RATE	UNDER 3°C/sec.
ΔT <sub>D</sub> /Δt	TEMP. DECREASING RATE	OVER -3°C/sec.

RECOMMENDED RoHS SOLDER PROFILE

NOTES:

- DIALIGHT P/N: 597-5XX6-502F, 597-5XX6-507F  
SUFFIX -502F FOR 20 PCS ON A SAMPLE TAPE STRIP  
SUFFIX -507F FOR 7" DIAMETER REEL, PACKAGED 3000 PCS PER REEL.
- LABELING FOR REEL AND OUTSIDE OF ALUMINUM BAG:  
DIALIGHT P/N, QUANTITY PER REEL, DATE CODE, INTENSITY BIN CODE, LOT NUMBER AND COUNTRY OF ORIGIN
- TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.
- PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- THIS PRODUCT IS RoHS COMPLIANT. EACH BAG IS TO BE MARKED WITH RoHS COMPLIANT LABEL OR EQUIVALENT MARKINGS. LED MUST BE Pb FREE.
- ESD WITHSTAND VOLTAGE 4000V MAX PER JS-001-2014.
- MSL LEVEL 4

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DIALIGHT CORP. INTERNAL REFERENCE ONLY - 3D MODEL: 5975006502F-A.1		
SCALE: 25.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-18370	A
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	
FRACTIONS: ±1/64	SM LED 0805 PACKAGE	
DECIMALS (.XX): ±.01	MATERIAL	
DECIMALS (.XXX): ±.005	Dialight	
DECIMALS (.XXXX): ±.0005	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
ANGLES: ±1°	FINISH	
FSCM 83330	SHEET 1 OF 1 FAMILY TABLE:	