

ABSOLUTE MAXIMUM RATINGS AT 25°C FOR 20mA PARTS							
LED COLOR	POWER DISSIPATON (mW)	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT (mA)	REVERSE VOLTAGE (V)	OPERATING TEMPERATURE (°C)	STORAGE TEMPERATURE (°C)	JUNCTION TEMPERATURE (°C)
RED	48	20	100	5	-40 TO +85	-40 TO +100	90
ORANGE	60		80				90
YELLOW	48		100				90
YELLOW GREEN	48		100				90
GREEN	70		100				95

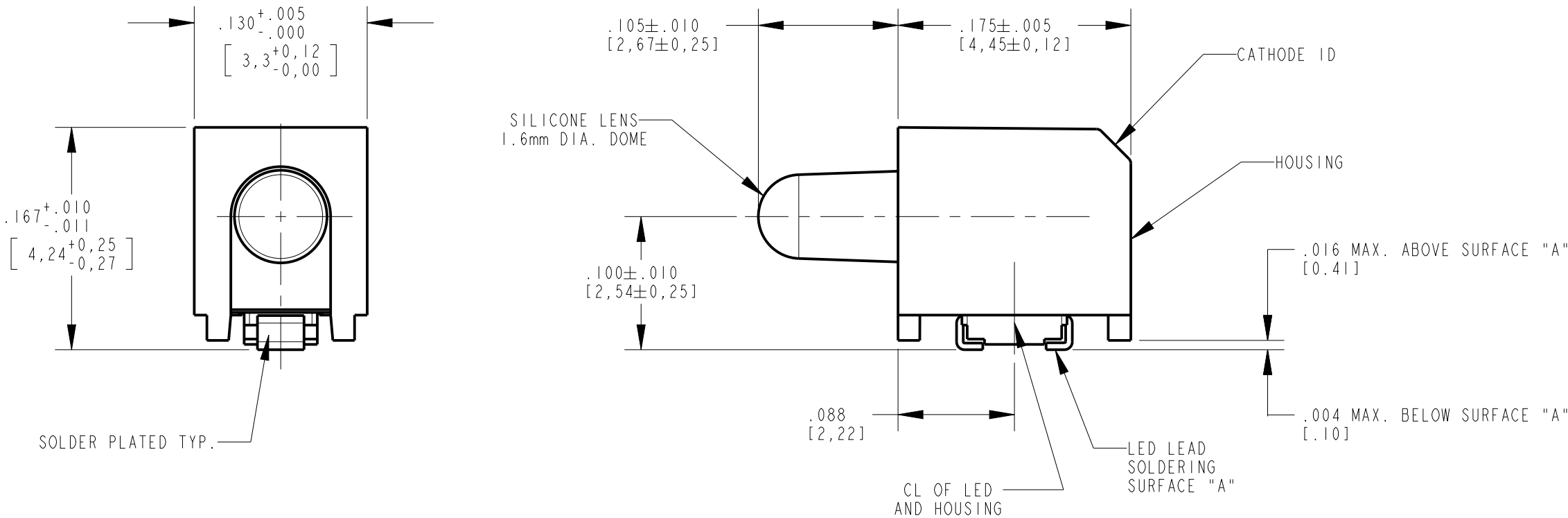
OPERATING CHARACTERISTICS AT 25°C FOR 20mA PARTS											
LED COLOR	IF (mA)	LUMINOUS INTENSITY (mcd)			DOMINANT WAVELENGTH (nm)			REVERSE CURRENT	FORWARD VOLTAGE (V)		THERMAL RESISTIVITY (°C/W)
		MIN.	TYP.	MAX.	MIN	TYP.	MAX	MAX	TYP.	MAX.	
RED	20		54			625		10μA @ VR=5V	1.8	2.4	290
ORANGE			38			605			1.8	2.4	290
YELLOW			48			590			1.8	2.4	290
YELLOW GREEN			9			570			1.8	2.4	290
GREEN			312			525			2.8	3.5	110

OPERATING CHARACTERISTICS AT 25°C 2mA PARTS					
LED COLOR (nm)	TEST CONDITION	CHROMACITY COORDINATE	LUMINOUS INTENSITY	DOMINANT WAVELENGTH	REVERSE CURRENT

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ABSOLUTE MAXIMUM RATINGS AT 25°C FOR 2mA PARTS						
LED COLOR (nm)	FORWARD CURRENT (mA)	SURGE CURRENT (mA) t<10μs; D = .005	REVERSE VOLTAGE (V)	OPERATING TEMPERATURE (°C)	STORAGE TEMPERATURE (°C)	JUNCTION TEMPERATURE (°C)
RED (630)	20	100	12	-40 TO +100	-40 TO +100	+100
ORANGE (606)	20	100				
YELLOW (588)	20	100				
ICE BLUE	15	150	5			
WHITE	20	200	5			

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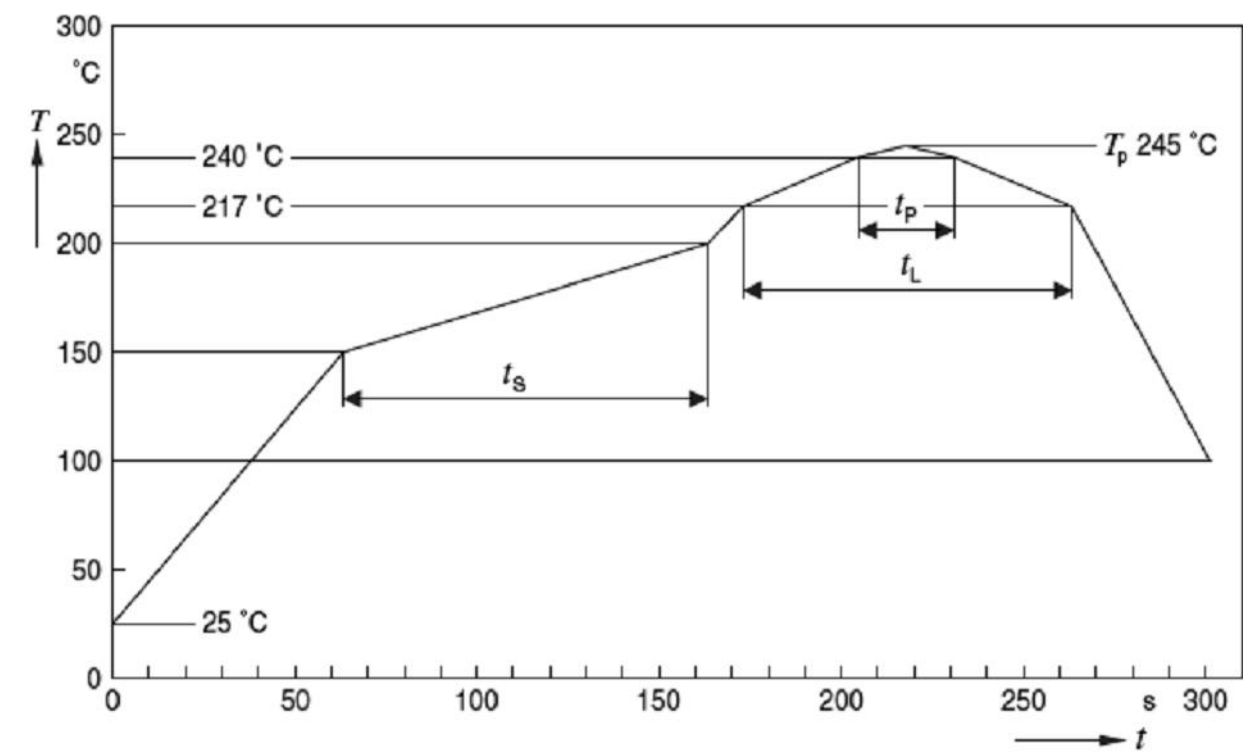
NOTES :

- 1- MILLIMETER DIMENSIONS SHOWN FOR REFERENCE ONLY
- 2- PAD NUMBERS ARE FOR REFERENCE ONLY , DESIGNATION NON-EXISTENT ON PART
- 3- STORAGE CONDITIONS FOR TAPED PRODUCT: RE-TAPING MAY BE NECESSARY FOR PRODUCTS STORED MORE THAN TWELVE MONTHS
- 4- ORDER QUANTITY IS LED ASSEMBLIES , NOT REELS
- 5-
 - ...-002F SUFFIX MEANS PARTS ARE PACKED ON A 20 pc SAMPLE STRIP
 - ...-007F SUFFIX MEANS PARTS ARE PACKED ON A 7 INCH REEL , 400 pcs/REEL
 - ...-013F SUFFIX MEANS PARTS ARE PACKED ON A 13 INCH REEL , 1600 pcs/REEL
- 6- FRONT AND REAR TERMINALS OF THE ASSEMBLY TO BE WITHIN .005 COPLANARITY
- 7- LED LEAD FRAME MATERIAL:
CORE MATERIAL = COPPER ALLOY
- 8- DIALIGHT PART NUMBERS FOR 20mA AND 2mA PARTS,
594-2x01-002F 594-2x01-007F 594-2x01-013F; 594-2X04-002F, 594-2X04-007F
9. DRY PACK PACKAGING CONSIST OF A DESICCANT, HUMIDITY INDICATOR CARD IN A VACUUM SEALED MOISTURE BARRIER BAG, MOISTURE SENSITIVITY LABEL LEVEL 2 ON OUTSIDE OF BAG, AS PER JEDEC STD. 033 FOR 2mA PARTS. MSL3 FOR 20mA PARTS.
10. ATTENTION: OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.



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DIALIGHT CORP. INTERNAL REFERENCE ONLY - 3D MODEL : 5942X0XXFF-A.9			
SCALE: 10.000		DRAWING NUMBER	
ALL DIM'S IN: INCHES (MM)		C-18409	
TOLERANCES: UNLESS OTHERWISE SPECIFIED		C	
FRACTIONS: ±1/64 DECIMALS (X.XX): ±.01 DECIMALS (X.XXX): ±.005 DECIMALS (X.XXXX): ±.0005 ANGLES: ±1°		TITLE MINI PRISM - ROUND LENS 1.6mm DIA.	
FINISH		MATERIAL	
FSCM 83330			
		1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
		SHEET 1 OF 2	
		FAMILY TABLE:	

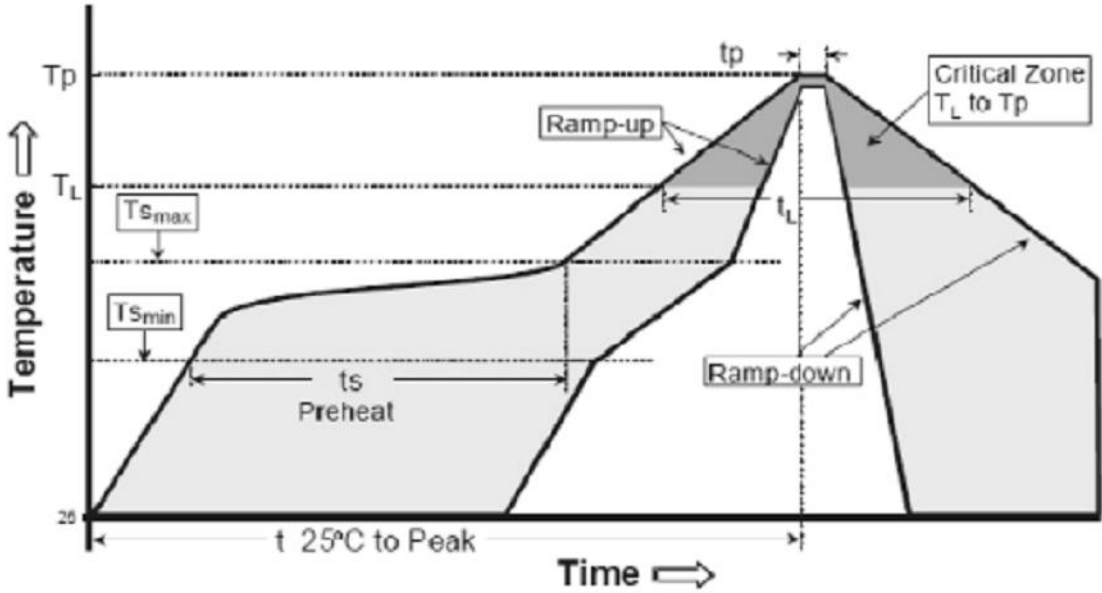
2mA LED
RECOMMENDED RoHS SOLDER PROFILE



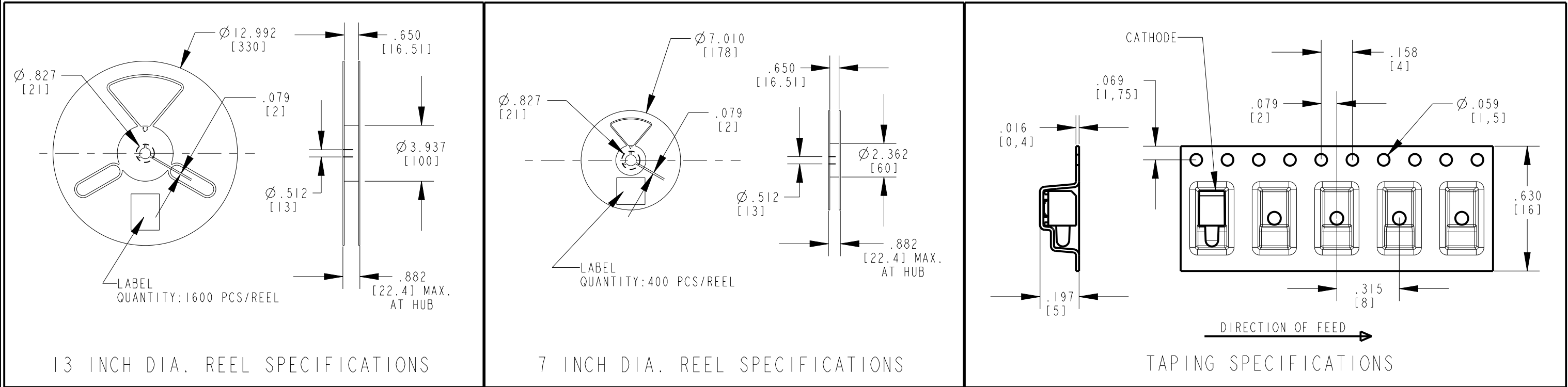
MARK	DEFINITION	CONDITION
$T_{S_{max}}$	Maximum of pre-heating temperature	200 °C
$T_{S_{min}}$	Minimum of pre-heating temperature	150 °C
T_s	Time form T_{Smin} to T_{Smax}	60-120 sec
T_L	Reference temperature	217 °C
t_L	Retention time for T_L	within 80s
T_p	Peak Temperature	245 °C
t_p	Time for peak temperature	within 20s
DTr/Dt	Temperature rising rate	under 3° C/sec
DTd/Dt	Temperature decreasing rate	under -3° C/sec
t	25°C to t_p	480s

20mA LED
RECOMMENDED RoHS SOLDER PROFILE

SMT Reflow Soldering Instructions SMT



MARK	DEFINITION	CONDITION
$T_{S_{max}}$	Maximum of pre-heating temperature	200 °C
$T_{S_{min}}$	Minimum of pre-heating temperature	150 °C
T_s	Time form T_{Smin} to T_{Smax}	60-120 sec
T_L	Reference temperature	217 °C
t_L	Retention time for T_L	within 60s
T_p	Peak Temperature	260 °C
t_p	Time for peak temperature	within 10s
DTr/Dt	Temperature rising rate	under 3° C/sec
DTd/Dt	Temperature decreasing rate	under -3° C/sec
t	25°C to t_p	480s



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DIALIGHT CORP INTERNAL REFERENCE ONLY - 3D MODEL : 9100126384099-A.2		
SCALE: 2.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-18409	C
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	
FRACTIONS: $\pm 1/64$	MINI PRISM - ROUND LENS 1.6mm DIA.	
DECIMALS (.XX): $\pm .01$	MATERIAL	
DECIMALS (.XXX): $\pm .005$		
DECIMALS (.XXXX): $\pm .0005$		
ANGLES: $\pm 1^\circ$		
FINISH		
FSCM 83330		
SHEET 2 OF 2	FAMILY TABLE:	