



LED CHARACTERISTICS	COLOR	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	RED GREEN	3.6 9.0	6.3 16.0	9.0 23.0	mcad	$I_F = 20$ mA
FORWARD VOLTAGE	RED GREEN		2.0 2.2	2.8 2.8	V	$I_F = 20$ mA
REVERSE CURRENT	RED GREEN			100	μ A	$V_R = 4$ V
PEAK WAVELENGTH	RED GREEN		650 570		nm	
DOMINANT WAVELENGTH	RED GREEN	645 568	653 575	660 582	nm	
VIEWING ANGLE (2θ 1/2)	RED GREEN		100		DEGREES	

ABSOLUTE MAXIMUM RATINGS AT 25 °C AMBIENT	RED	GREEN	UNITS
POWER DISSIPATION	60		mW
CONTINUOUS FORWARD CURRENT	25		mA
DERATE LINEARLY FROM 25 °C	.4	.3	mA/°C
PEAK FORWARD CURRENT (PULSE WIDTH 1 ms, DUTY 20%)	60		mA
REVERSE VOLTAGE	4		V
OPERATING TEMPERATURE	-30 TO +85		°C
STORAGE TEMPERATURE	-40 TO +85		°C

NOTES:

1. EPOXY COLOR: WATER CLEAR.
2. DIE: GaAsP RED/GaP GREEN.
3. LEADS: GOLD (Au), COPPER (Cu), NICKEL (Ni)
4. SOLDER ADHERANCE: BOTH LEADS PER MIL. STD. 202E, METHOD 208C.
5. PARTS TO BE TAPED AND REELED PER EIA-481-1 SPEC.
6. SUFFIX -507 FOR 180 mm DIA. REEL, 8 mm WIDE TAPE, PACKAGED 2500-PCS PER REEL.
7. TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.
8. DIALIGHT PART NUMBER: 597-7701-507, -502 597-7701-507F, -502F.
9. PART NUMBER WITH "F" SUFFIX ENDING IS RoHS COMPLIANT. EXAMPLE: 597-7701-507F. THE BAG PACKAGING IS MARKED WITH "RoHS COMPLIANT" LABEL OR EQUIVALENT MARKINGS. PART CAN BE WAVE SOLDERED, DIP SOLDERED OR HAND SOLDERED USING TYPICAL LEAD-FREE SOLDERING PROCESS WITH MAX. 260°C TEMPERATURE FOR 5 SEC.

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A		NEW RELEASE	DC	---	N.O.	3-25-97
B		ADDED NOTES 7 AND 8.	TC	DC	N.O.	6-9-99
C		CHANGED RED CATHODE TO RED ANODE, GREEN CATHODE TO GREEN ANODE ON RIGHT SIDE OF THE CATHODE MARK.	DC	JMC	N.O.	9-13-02
D		UPDATED LED SPECS.	YIS	JMC	Y.C.	2-21-03
E		ADDED RoHS COMPLIANT "F" SUFFIX P/Ns; RoHS REFLOW PROFILE AND RoHS NOTE; ADDED -502 SAMPLE STRIP; UPDATED FORMAT AND PLATING NOTE	TWC			

SCALE: DRAWING SCALE ALL DIM'S IN: INCHES (MM)	DRAWING NUMBER C-16196	REV E
TOLERANCES: UNLESS OTHERWISE SPECIFIED		
FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°		
MATERIAL		
FINISH:		
Dialight	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727	
FSCM 83330	SHEET 1 OF 1	FAMILY TABLE