

ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=500\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
DOM. WAVELENGTH		635		nm	
FORWARD VOLTAGE	2.0	2.7	3.3	$V_f$	$I_f = 500\text{mA}$
REVERSE VOLTAGE	5.0			$V_r$	$I_f = 100\mu\text{A}$
AXIAL INTENSITY	35	50	60	$\text{lm}$	$I_f = 500\text{mA}$
VIEWING ANGLE			100	$2x$ theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT  $25^{\circ}\text{C}$

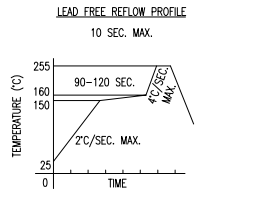
PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	700	mA
STEADY CURRENT	500	mA
LED JUNCTION TEMPERATURE	110	$^{\circ}\text{C}$
THERMAL RESISTANCE	12	$^{\circ}\text{C}/\text{W}$
OPERATING, STORAGE TEMP.	-40 TO +100	$^{\circ}\text{C}$

\* $T < 10\mu\text{s}$

NOTE:  
 1. WE RECOMMEND THAT THE DEVICES MUST BE BAKED BEFORE SOLDERING IF THEY ARE REMOVED FROM THE ORIGINAL PACKAGE, AND ARE EXPOSED TO ENVIRONMENTAL CONDITIONS FOR LONGER THAN THE DURATIONS, (UNIT: DAYS) DEFINED IN THE TABLE BELOW.  
 2. RECOMMENDED BAKING CONDITIONS ARE 24 HOURS AT  $80^{\circ}\text{C}$

TABLE A: TEMPERATURE vs. MAXIMUM PERCENT RELATIVE HUMIDITY

TEMPERATURE	MAXIMUM PERCENT RELATIVE HUMIDITY						
	30%	40%	50%	60%	70%	80%	90%
$30^{\circ}\text{C}$	9	5	4	3	1	1	1
$25^{\circ}\text{C}$	12	7	5	4	2	1	1
$20^{\circ}\text{C}$	17	9	7	6	2	2	1



CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 3 STANDARDS  
 CAUTION: STATIC SENSITIVE DEVICE FOLLOW PROPER E.S.D. HANDLING PROCEDURES WHEN WORKING WITH THIS PART.

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8mm ROUND TOP DOME SMT HI POWER LED RED 2W.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*

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DATE:	06.28.10	DRAWN BY:	JN
PAGE:	1 OF 1	CHKD BY:	SS
SCALE:	N/A	APRVD BY:	KF
UNIT:	mm [INCH]		