

L.E.D. TECHNOLOGY

UNDERSTANDING THE SUBJECT IS CUSTOMER SERVICE

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LOW COST T1 L.E.D.'s

TECHNICAL INFORMATION SHEET

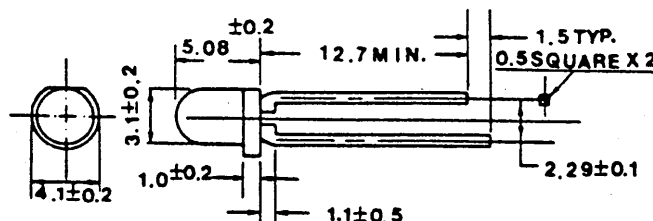
ref: LT1001

date of issue: 8/8/89

Features :

- * CHOICE OF SEVERAL HIGH PERFORMANCE COLOURS.
- * GOOD VIEWING ANGLES
- * AVAILABLE IN A CHOICE OF EPOXY COLOUR DIFFUSED
WHITE DIFFUSED
WATER CLEAR
COLOUR TRANSPARENT
- * INDUSTRY STANDARD T1 STYLE
- * IDEAL FOR STATUS INDICATOR APPLICATIONS

Mechanical Dimensions :



MAXIMUM RECOMMENDED RATINGS @ 25 deg C

PARAMETER	RED	GREEN	YELLOW	H.E RED	ORANGE	BRIGHT RED	UNITS
Reverse Voltage V_R	3	5	5	5	5	4	V
Average Forward Current I_F	25	25	25	25	25	25	mA
Peak Forward Current I_{FSM} <small>1/10 SEC PULSE, 0.3% DUTY CYCLE</small>	1000	1000	1000	1000	1000	1000	mA
Power Dissipation P_T	100	85	85	85	85	70	mW
Derate Linearly From 30 deg C	0.45	0.45	0.45	0.45	0.45	0.45	mW/°C

Lead Solder Temperature (1.6mm From Body) 230 deg C For 5 Seconds

Operating and Storage Temperature Range -40 deg C TO +85 deg C

ELECTRICAL/OPTICAL CHARACTERISTICS ($T_a=25$ deg C): $I_F=20$ mA

Forward Voltage V_F Typical	1.7	2.1	2.1	2.1	2.1	1.7	V
Forward Voltage V_F Maximum	2	3	3	3	3	2.2	V
Reverse Current I_R $V_R=5V$	100	100	100	100	100	100	μA
	$V_R=3V$					$V_R=4V$	
Wavelength @ Peak Emission	655	567	585	635	610	660	nM
Spectral Line Halfwidth	45	50	45	45	35	50	nM
Luminous Intensity Typical	2	4.6	4	6	5	9	mCD

HOW TO ORDER:

LT 3 X Y Z

X= 1: RED, 2: GREEN, 3: YELLOW, 4: H.E. RED, 7: BRIGHT RED, 8: ORANGE.

Y= 1: COLOUR DIFFUSED, 2: WHITE DIFFUSED, 3: WATER CLEAR, 4: COLOUR TRANSPARENT

Z= R: H.E. RED

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ELECTRICAL/OPTICAL CHARACTERISTICS

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FIGURE 1

FORWARD CURRENT VS. FORWARD VOLTAGE

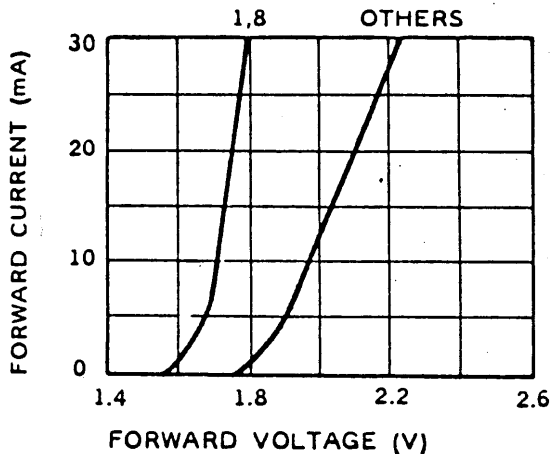


FIGURE 2

RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

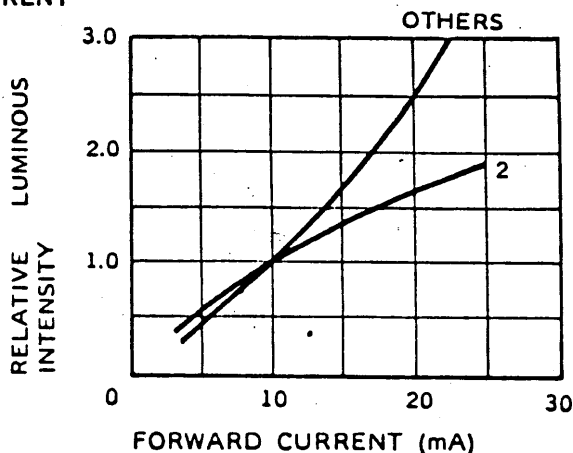


FIGURE 3

MAX PEAK CURRENT VS. DUTY CYCLE

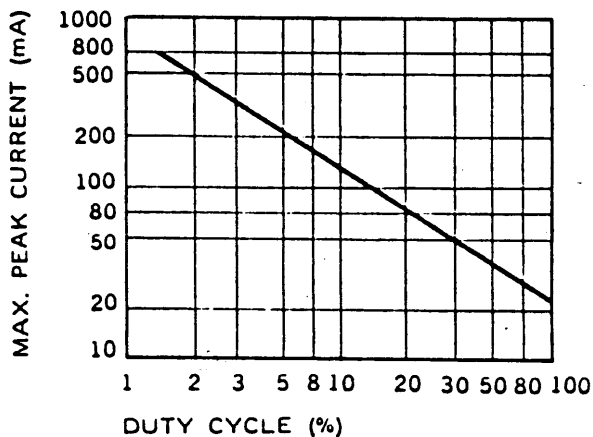


FIGURE 4

MAX FORWARD CURRENT VS. TEMPERATURE

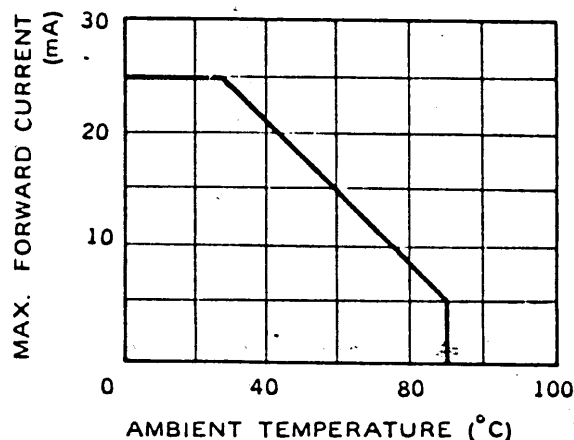
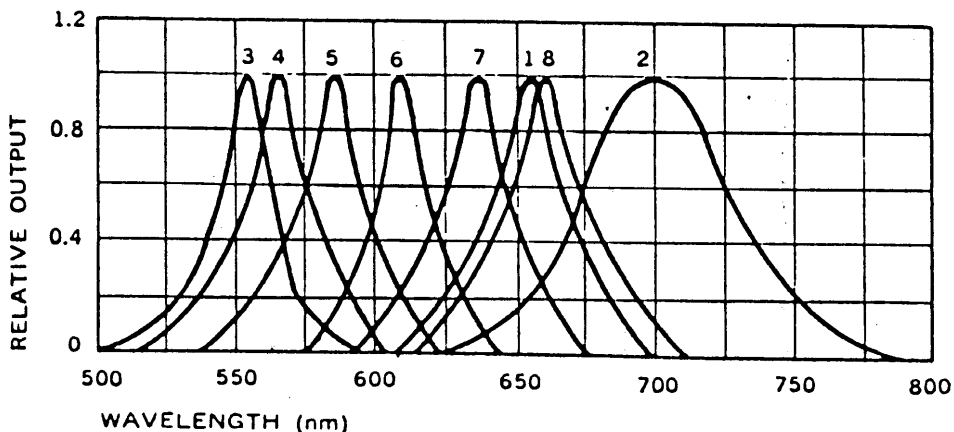


FIGURE 5

SPECTRAL RESPONSE



NOTE:

- 1: GaAsp RED
- 2: Gap RED
- 3: PURE GREEN
- 4: GREEN
- 5: YELLOW
- 6: AMBER
- 7: ORANGE/HI-EFF. RED
- 8: SUPERBRIGHT