178-314

L.E.D. TECHNOLOGY

UNDERSTANDING THE SUBJECT IS CUSTOMER SERVICE

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LOW COST T13/4 L.E.D.'s

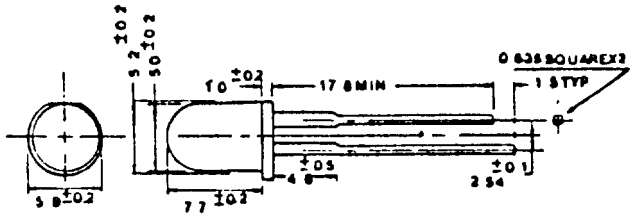
TECHNICAL INFORMATION SHEET

ref: LT1002 | 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 T13/4 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} 1µ SEC PULSE, 0.3% DUTY CYCLE	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/^{O} 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 (Ta=25 deg C): I_F= 20mA							
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 VR= 3V	100	100	100	100	100 VR= 4V	µA
Wavelength @ Peak Emission	655	567	585	635	610	660	nM
Spectral Line Halfwidth	45	50	45	45	35	50	nM
Luminous Intensity Typical	2.2	5.5	4.8	7.2	6	13.5	mCD

HOW TO ORDER: LT 5 [X] [Y] [Z] L

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

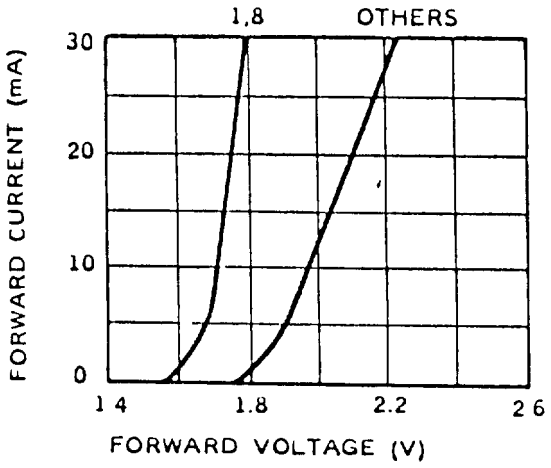


FIGURE 2

RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

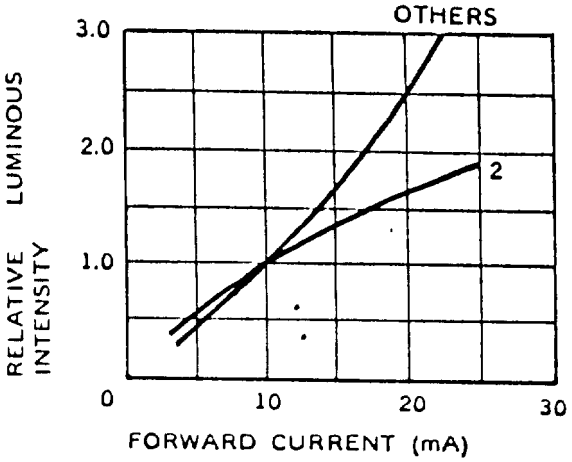


FIGURE 3

MAX PEAK CURRENT VS. DUTY CYCLE

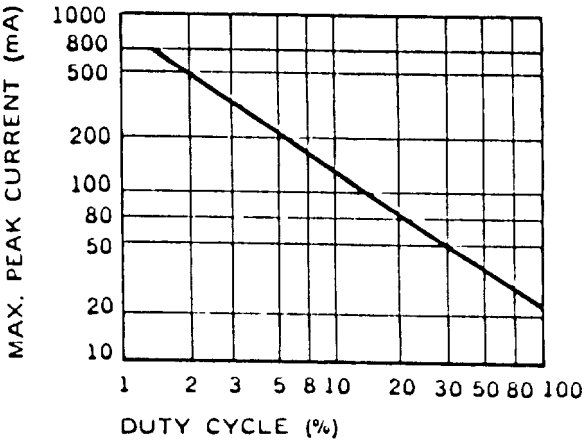


FIGURE 4

MAX FORWARD CURRENT VS. TEMPERATURE

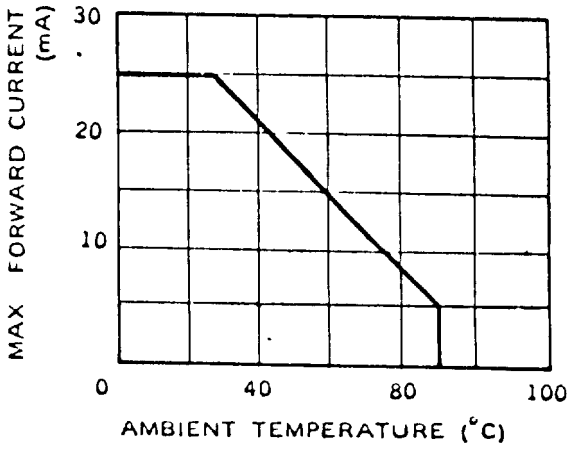
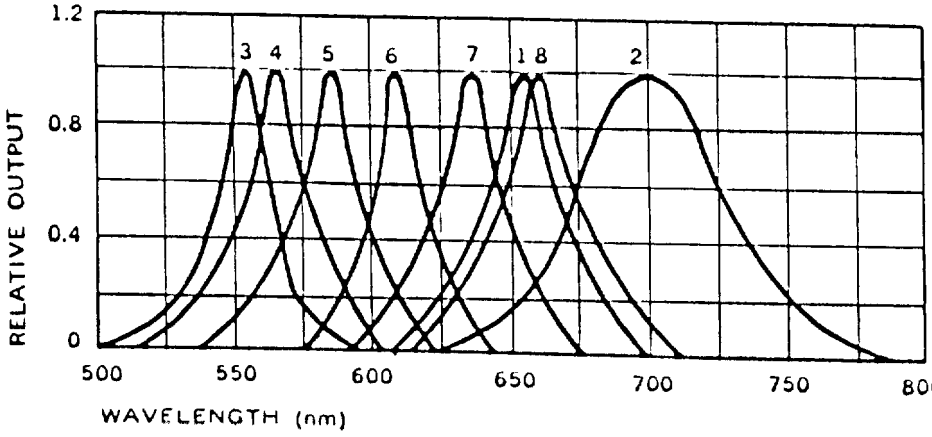


FIGURE 5

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

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