

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

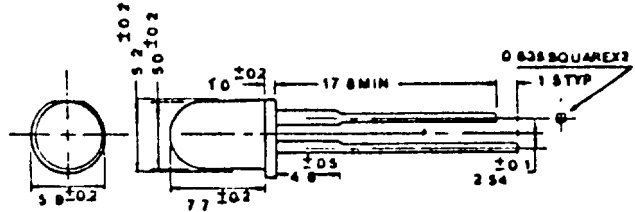
ref: LT1002

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 VR	3	5	5	5	5	4	V
Average Forward Current IF	25	25	25	25	25	25	mA
Peak Forward Current IFSM <small>1µ SEC PULSE, 0.3% DUTY CYCLE</small>	1000	1000	1000	1000	1000	1000	mA
Power Dissipation PT	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 (Ta=25 deg C): IF= 20mA

Forward Voltage VF Typical	1.7	2.1	2.1	2.1	2.1	1.7	V
Forward Voltage VF Maximum	2	3	3	3	3	2.2	V
Reverse Current IR VR= 5V	100 <small>VR= 3V</small>	100	100	100	100	100 <small>VR= 4V</small>	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

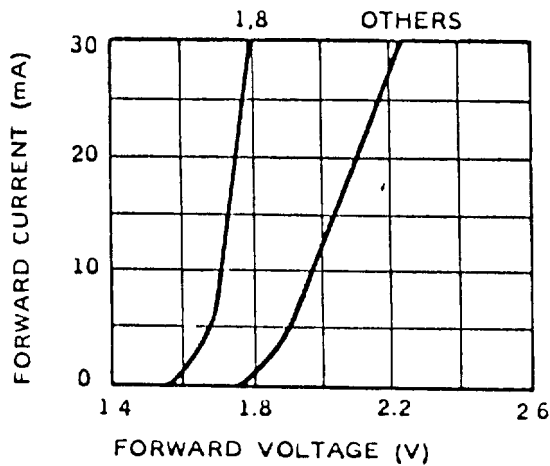


FIGURE 2
RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

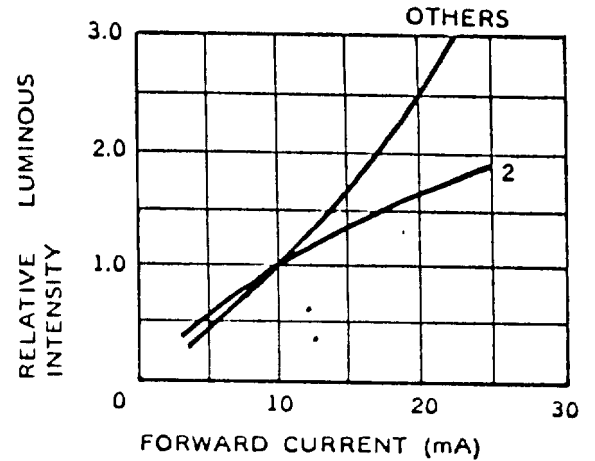


FIGURE 3
MAX PEAK CURRENT VS. DUTY CYCLE

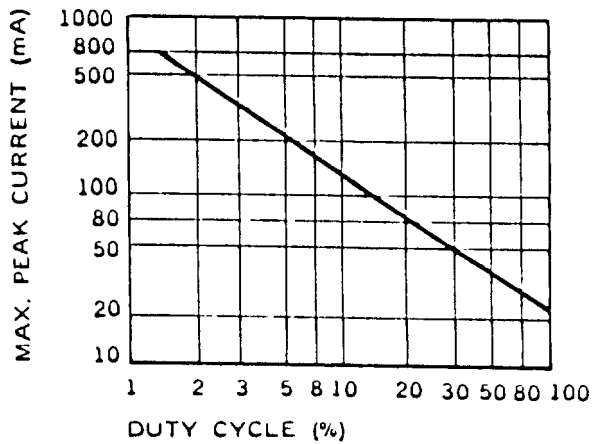


FIGURE 4
MAX FORWARD CURRENT VS. TEMPERATURE

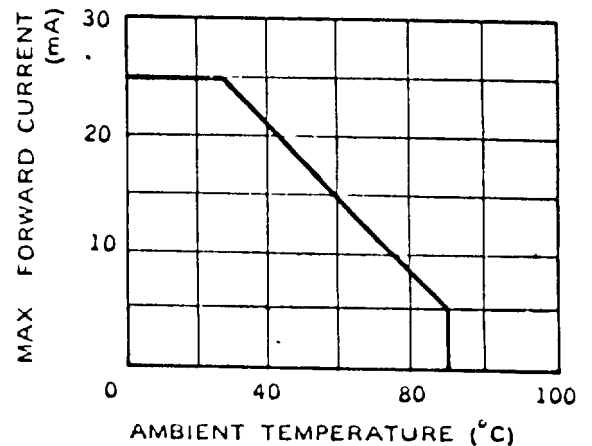
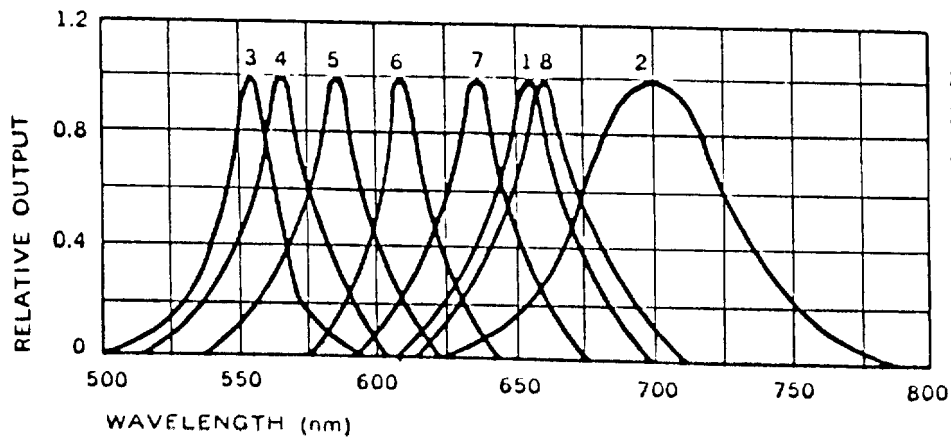


FIGURE 5
SPECTRAL RESPONSE



NOTE.

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