L.E.D. TECHNOLOGY

UNDERSTANDING THE SUBJECT IS CUSTOMER SERVICE

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LA 50XX-11 Series

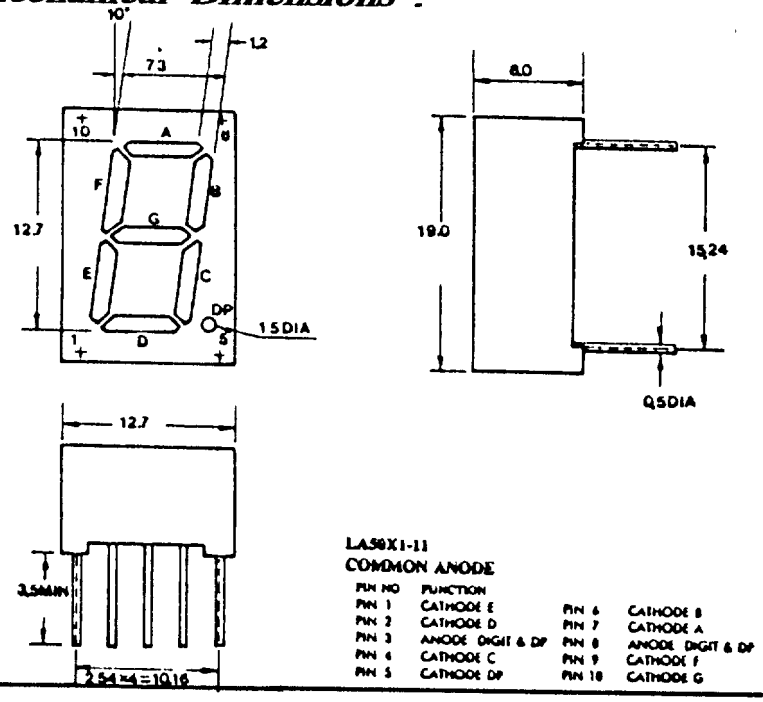
TECHNICAL INFORMATION SHEET

ref: | date of issue: 14/9/89

Features :

* Choice Of Several High Performance Colours
* Common Anode and Common Cathode Available
* Circular Pins For " Gas Tight Joints" With Most Styles Of I.C. Socket

Mechanical Dimensions :



LA50X1-11
COMMON ANODE

PIN NO	FUNCTION	PIN NO	FUNCTION
PIN 1	CATHODE E	PIN 6	CATHODE B
PIN 2	CATHODE D	PIN 7	CATHODE A
PIN 3	ANODE DIGIT & DP	PIN 8	ANODE DIGIT & DP
PIN 4	CATHODE C	PIN 9	CATHODE F
PIN 5	CATHODE DP	PIN 10	CATHODE G

MAXIMUM RECOMMENDED RATINGS @ 25 deg C

PARAMETER (per segment)	RED	GREEN	YELLOW	H.E RED	ORANGE	GaP RED	UNITS
Reverse Voltage V_R	3	5	5	5	5	5	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	85	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= 20mA							
Forward Voltage V_F Typical	1.7	2.1	2.1	2.1	2.1	2.1	V
Forward Voltage V_F Maximum	2	3	3	3	3	3	V
Reverse Current I_R V_R=5V	100 VR=3V	100	100	100	100	100	µA
Wavelength @ Peak Emission	655	567	585	635	635	700	nM
Spectral Line Halfwidth	45	50	45	45	35	75	nM
Luminous Intensity Typical I_F= 10mA	0.5	1.85	1.75	2.0	2.0	0.9	mCD

HOW TO ORDER: LA 50 [X] 1 (R= Hi Eff Red) - 11

X=1. Std Red, 2: Green, 3: Yellow, 4: Orange/Hi Eff Red, 5. GaP Red

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ELECTRICAL/OPTICAL CHARACTERISTICS

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FIGURE 1

FORWARD CURRENT VS. FORWARD VOLTAGE

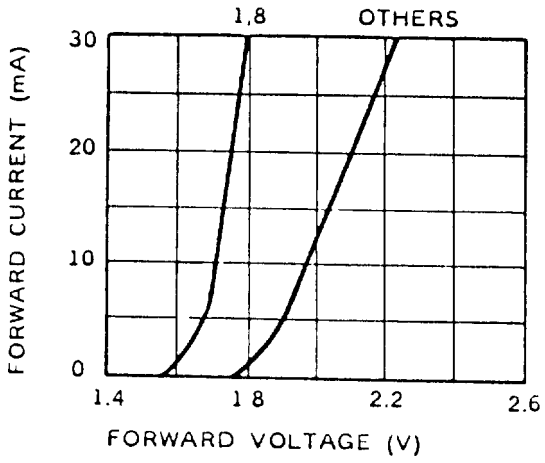


FIGURE 2

RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

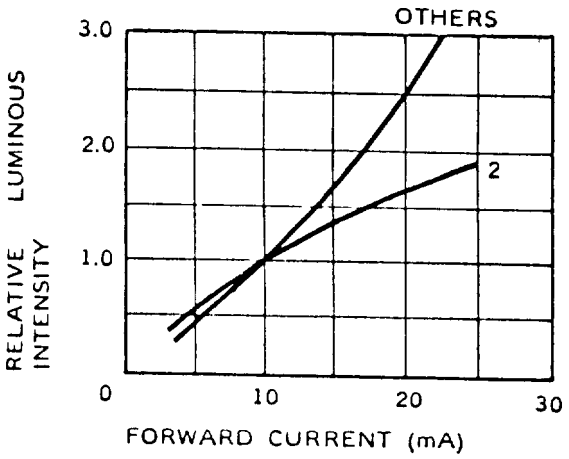


FIGURE 3

MAX PEAK CURRENT VS. DUTY CYCLE

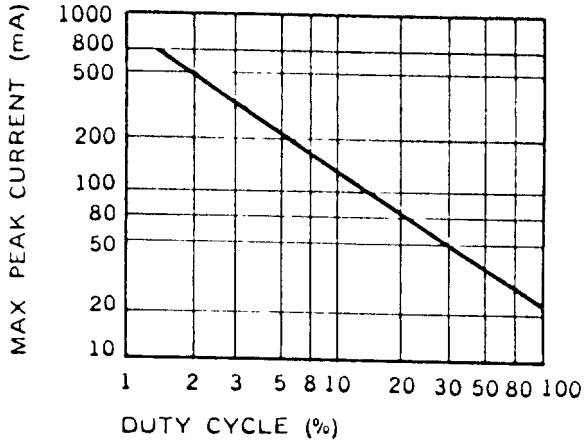


FIGURE 4

MAX FORWARD CURRENT VS. TEMPERATURE

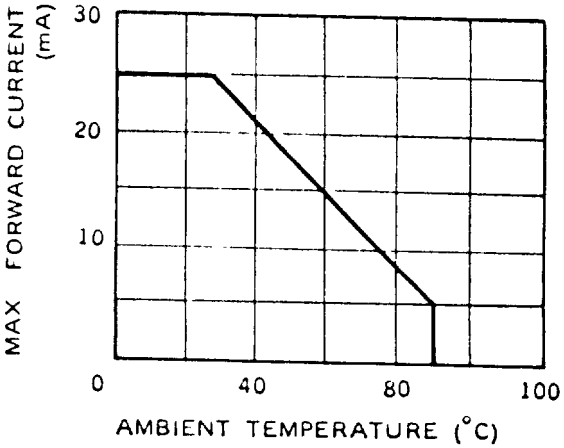
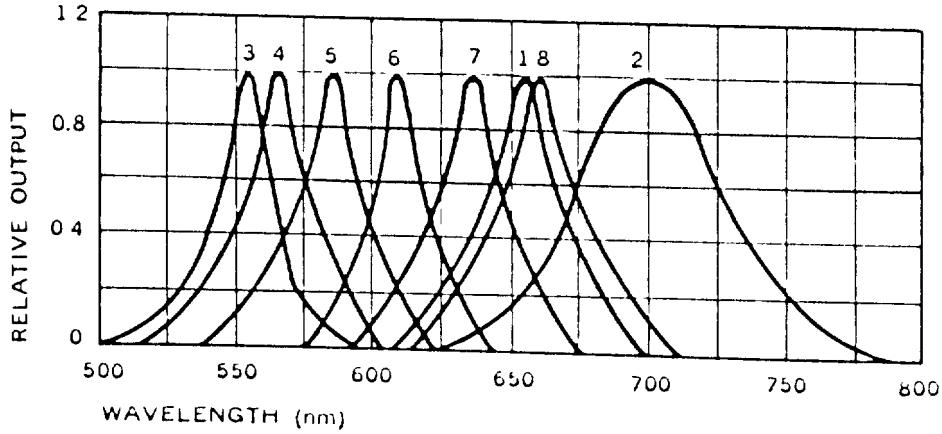


FIGURE 5

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