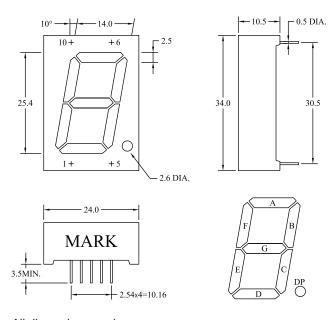
# 1" Single Digit Display

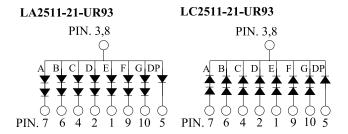




## **Package Dimensions:**

## **Internal Circuit Diagram:**





All dimensions are in mm Tolerance: ±0.25mm

The slope angle of any PIN may be  $\pm 5^{\circ}$  max

## Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol		Rating	Unit	
Dower Dissination - Bra Segment		DP	72	mW	
Power Dissipation - Pre Segment	Po	Seg	144	IIIVV	
Pulse Current (1/10 Duty Cycle, 0.1ms Pulse Width)	I	FP	100	mA	
Forward Current - Per Chip	lF		30	mA	
Reverse (Leakage) Current - Per Chip		lr	100	μΑ	
Reverse Voltage - Per Chip		<b>/</b> R	5	V	
Operating Temperature Range		pr.	-25 to +85	°C	
Storage Temperature Range	Ts	stg.	-40 to +100	°C	
Soldering Temperature	Ts	sol.	Dip Soldering: 260°C for 5sec. Hand Soldering: 350°C for 3 sec.		

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# 1" Single Digit Display



### **Electrical & Optical Characteristics:**

Parameter	Symbol		Condition	Min.	Тур.	Max.	Unit
Luminous Intensity - Per Segment	lv		If=10mA	15.4	34		mcd
Forward Voltage	Vf	DP	If=20mA		1.9	2.4	V
		Seg	If=20mA		3.8	4.8	V
Peak Wavelength	λр		If=20mA		650		nm
Dominant Wavelength	λd		If=20mA		639		nm
Reverse Current - Per Chip (Leakage Current - Per Chip)	Ir		Vr=5V			100	μΑ
Spectrum Line Halfwidth	Δλ		If=20mA		20		deg
Response Time		Т			250		nm

Note: Customer's special requirements are also welcome.

### **Electrical & Optical Characteristics: Hyper Red**

Bin Name		R	S	Т	U	V
IV (mcd)	Min.	15.4	22	31.45	44.95	58.45
	Max.	22	31.45	44.95	58.45	76

#### Typical Electrical & Optical Characteristics Curves:

(25°C Ambient temperature unless otherwise noted)

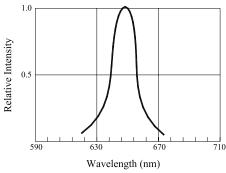


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

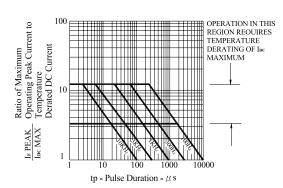
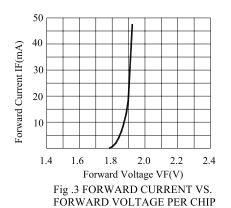


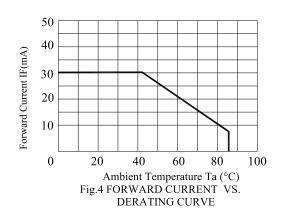
Fig.2 MAXIMUM TOLERABLE PEAK CURRENT VS. PULSE DURATION

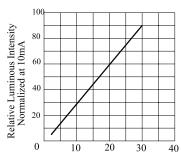


## 1" Single Digit Display

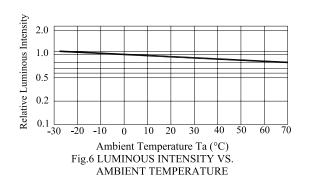








Forward Current (mA)
Fig.5 RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



#### **Part Number Table**

LED	LED Chip		Face Colour		
Material	Emitting Colour	Surface	Segments	Part Number	
AlGaln / GaAs	Deep Red	Grey	White	703-0176	
AlGaln / GaAs	Deep Red	Grey	White	703-0177	

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