# LED Dot Matrix Display multicomp





RoHS **Compliant** 

### Absolute Maximum Ratings at Ta=25°C

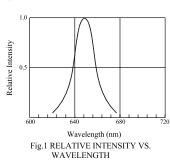
Parameter	Symbol	Rating	Unit	
Power Dissipation - Per Dot	Pb	72	mW	
Pulse Current (1/10 Duty Cycle, 0.1ms Pulse Width) - Per Chip	lfp	100	mA	
Forward Current - Per Chip	lF	30	mA	
Reverse (Leakage) Current - Per Chip	Ir	100	μΑ	
Reverse Voltage - Per Chip	VR	5	V	
Operating Temperature Range	Topr.	-25 to +85	°C	
Storage Temperature Range	Tstg.	-40 to +100		
Soldering Temperature	Tsol.	Dip Soldering: 260°C for 5sec. Hand Soldering: 350°C for 3sec.		

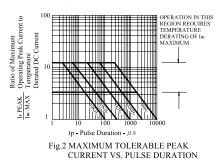
### **Electrical and Optical Characteristics**

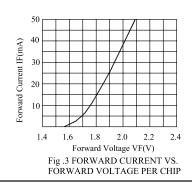
Parameter	Symbol	Condition	Value			Unit
			Min.	Тур.	Max.	Unit
Luminous Intensity (Per Dot)	lv	If=10mA/Dot	15.01	30	-	mcd
Forward Current	Vf	If=20mA/Dot	-	1.9	2.4	V
Peak Wavelength	λр	If=20mA/Dot	-	650	-	nm
Dominant Wavelength	λd	If=20mA/Dot	-	639	-	nm
Reverse Current - Per Chip (Leakage Current - Per Chip)	lr	Vr=5V	-	-	100	μΑ
Spectrum Line Halfwidth	Δλ	If=20mA/Dot	-	20	-	nm
Response Time	Т	-	-	250	-	ns

### Typical Electrical & Optical Characteristics Curves

(25°C Ambient temperature unless otherwise noted)





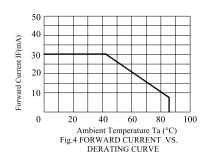


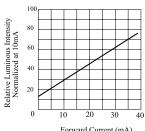
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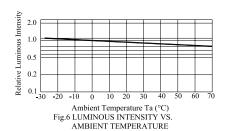
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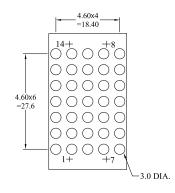


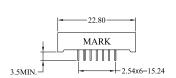


Forward Current (mA) Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

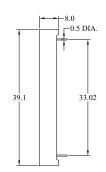


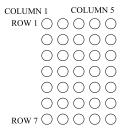
### **Package Dimensions**



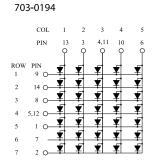


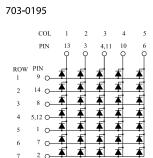
Dimensions: Millimetres





#### **Internal Circuit Diagram**





#### **Part Number Table**

LED Chip Face Colour		Face Colour Port No.		Part Number	
Material	<b>Emitting Colour</b>	Surface	Segments	Part Number	
AlGaInP / GaAs	Doop rod	Crov	White	703-0194	
AlGaine / GaAs	Deep red	Grey		703-0195	

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Tolerance: ±0.25mm unless otherwise noted The slope of any PIN may be ±5.0° max

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