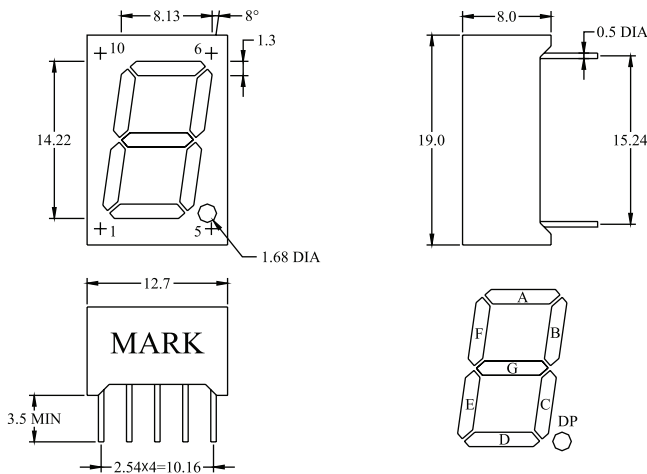


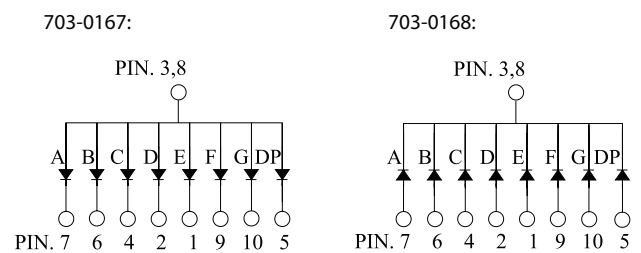
# 0.56" Single Digit Display



## Package Dimensions:



## Internal Circuit Diagram:



All dimensions are in mm  
 Tolerance:  $\pm 0.25\text{mm}$   
 The slope angle of any PIN may be  $\pm 5^\circ$  max

## Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Power Dissipation - Pre Segment	$P_D$	72	mW
Pulse Current (1/10 Duty Cycle, 0.1ms Pulse Width) - Per Chip	$I_{FP}$	100	mA
Forward Current - Per Chip	$I_F$	30	mA
Reverse (Leakage) Current - Per Chip	$I_r$	100	$\mu\text{A}$
Reverse Voltage - Per Chip	$V_R$	5	V
Operating Temperature Range	Topr.	-25 to +85	$^\circ\text{C}$
Storage Temperature Range	Tstg.	-40 to +100	$^\circ\text{C}$
Soldering Temperature	Tsol.	Dip Soldering: $260^\circ\text{C}$ for 5sec. Hand Soldering: $350^\circ\text{C}$ for 3 sec.	

# 0.56" Single Digit Display

## Electrical & Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity - Per Segment	$I_v$	$I_f=10\text{mA} / \text{seg}$	15.4	33.5		mcd
Forward Voltage	$V_f$	$I_f=20\text{mA} / \text{seg}$		1.9	2.4	V
Peak Wavelength	$\lambda_p$	$I_f=20\text{mA} / \text{seg}$		650		nm
Dominant Wavelength	$\lambda_d$	$I_f=20\text{mA} / \text{seg}$		639		nm
Reverse Current - Per Chip (Leakage Current - Per Chip)	$I_r$	$V_r=5\text{V}$			100	$\mu\text{A}$
Spectrum Line Halfwidth	$\Delta\lambda$	$I_f=20\text{mA} / \text{seg}$		20		deg
Response Time	T			250		nm

Note: Customer's special requirements are also welcome.

## Typical Electrical & Optical Characteristics Curves:

(25°C Ambient temperature unless otherwise noted)

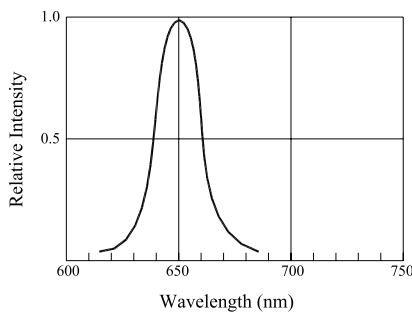


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

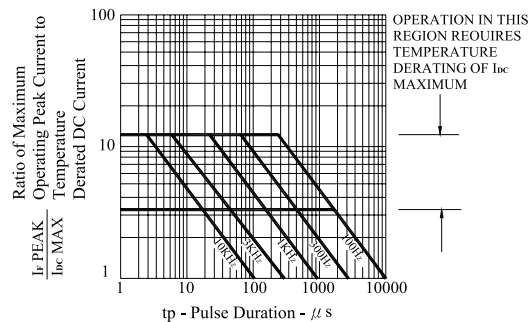


Fig.2 MAXIMUM TOLERABLE PEAK CURRENT VS. PULSE DURATION

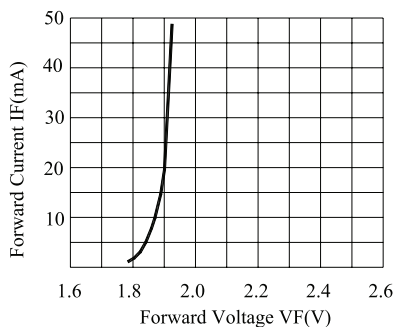


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE PER CHIP

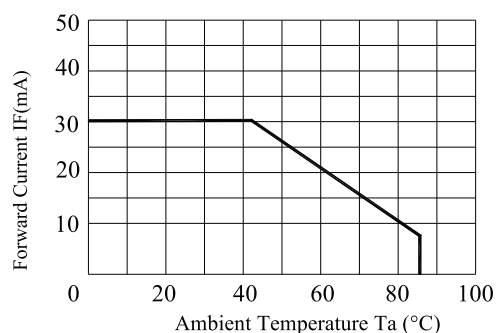


Fig.4 FORWARD CURRENT VS. DERATING CURVE

# 0.56" Single Digit Display

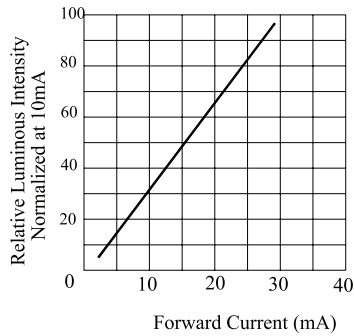


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

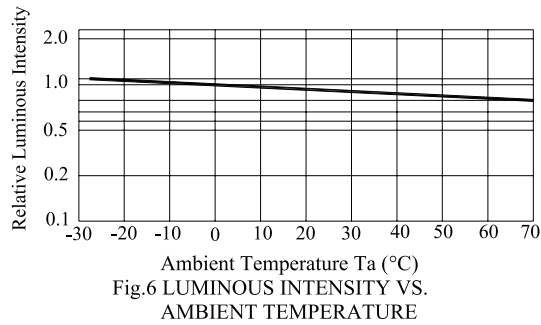


Fig.6 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

## Part Number Table

LED Chip		Face Colour		Part Number
Material	Emitting Colour	Surface	Segments	
AlGaInP/GaAs	Deep red	Grey	White	703-0169
AlGaInP/GaAs	Deep red	Grey	White	703-0170

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