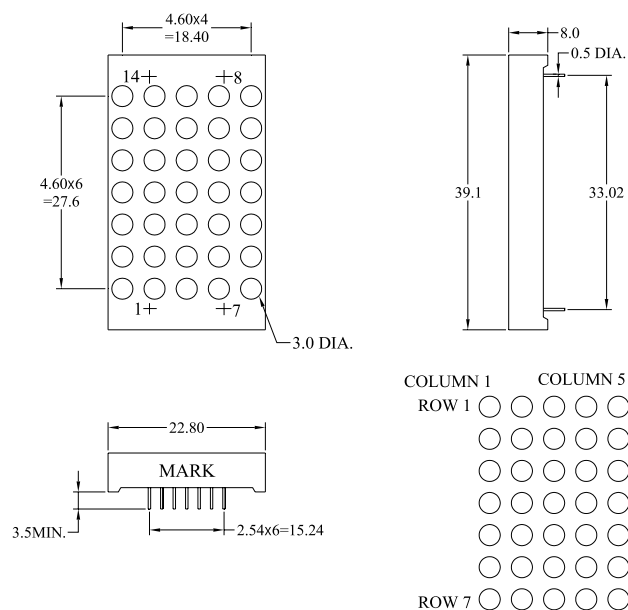


1.2" (30.42mm) 5 x 7 Dot Matrix Display

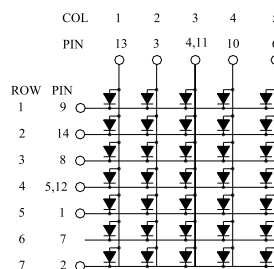


Package Dimensions:

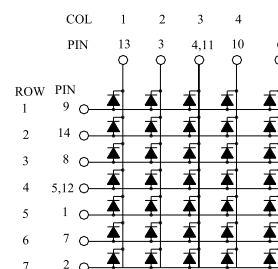


Internal Circuit Diagram:

703-0194:



703-0195:



* All dimensions are in mm
 * Tolerance: ± 0.25 mm unless otherwise noted
 * The slope of any PIN may be $\pm 5.0^\circ$ max

Ant Part No.	LED Chip		Face Colour	
	Material	Emitting Colour	Surface	Segments
703-0194	AlGaInP / GaAs	Deep red	Grey	White
703-0195	AlGaInP / GaAs	Deep red	Grey	White

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1.2" (30.42mm) 5 x 7 Dot Matrix Display



Absolute Maximum Ratings at Ta=25°C:

Parameter	Symbol	Rating	Unit
Power Dissipation - Per 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	mA
Reverse Voltage - Per Chip	V _R	5	uA
Operating Temperature Range	T _{opr.}	-25 to +85	°C
Storage Temperature Range	T _{stg.}	-40 to +100	°C
Soldering Temperature	T _{sol.}	Dip Soldering: 260°C for 5sec. Hand Soldering: 350°C for 3sec.	

Electrical & Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity (Per Dot)	I _v	I _f =10mA/Dot	15.01	30		mcd
Forward Current	V _f	I _f =20mA/Dot		1.9	2.4	V
Peak Wavelength	λ _p	I _f =20mA/Dot		650		nm
Dominant Wavelength	λ _d	I _f =20mA/Dot		639		nm
Reverse Current - Per Chip (Leakage Current - Per Chip)	I _r	V _r =5V			100	μA
Spectrum Line Halfwidth	Δλ	I _f =20mA/Dot		20		nm
Response Time	T			250		ns

Note: Customer's special requirements are also welcome

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1.2" (30.42mm) 5 x 7 Dot Matrix Display



Typical Electrical & Optical Characteristics Curves: (25°C Ambient temperature unless otherwise noted)

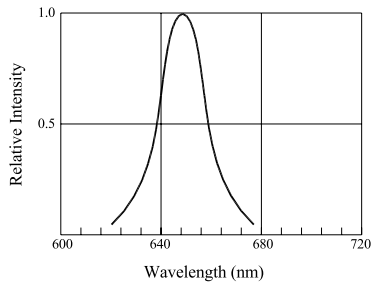


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

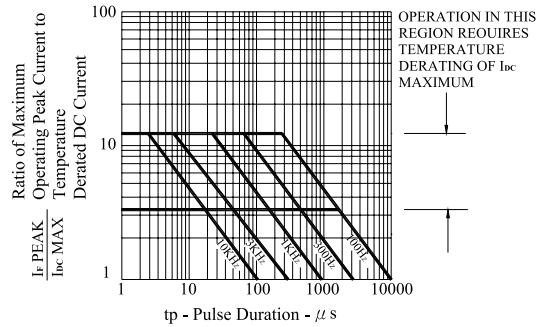


Fig.2 MAXIMUM TOLERABLE PEAK CURRENT VS. PULSE DURATION

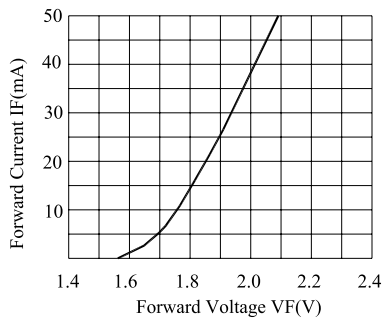


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE PER CHIP

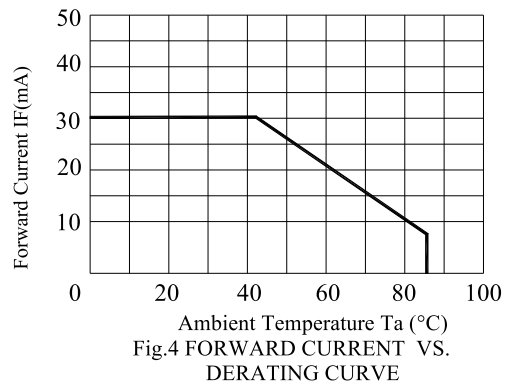


Fig.4 FORWARD CURRENT VS. DERATING CURVE

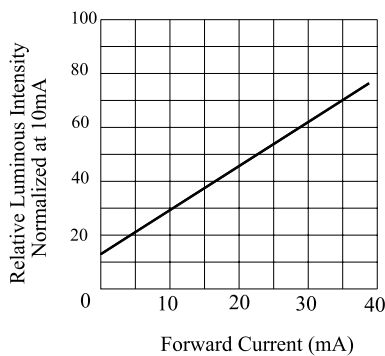


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

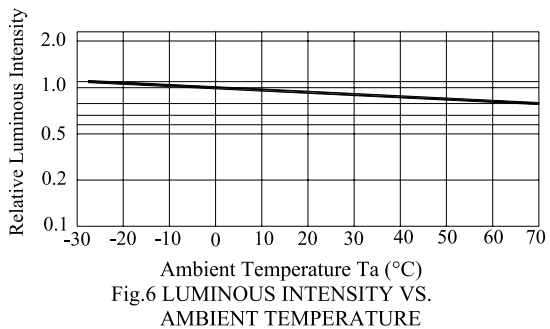


Fig.6 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

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