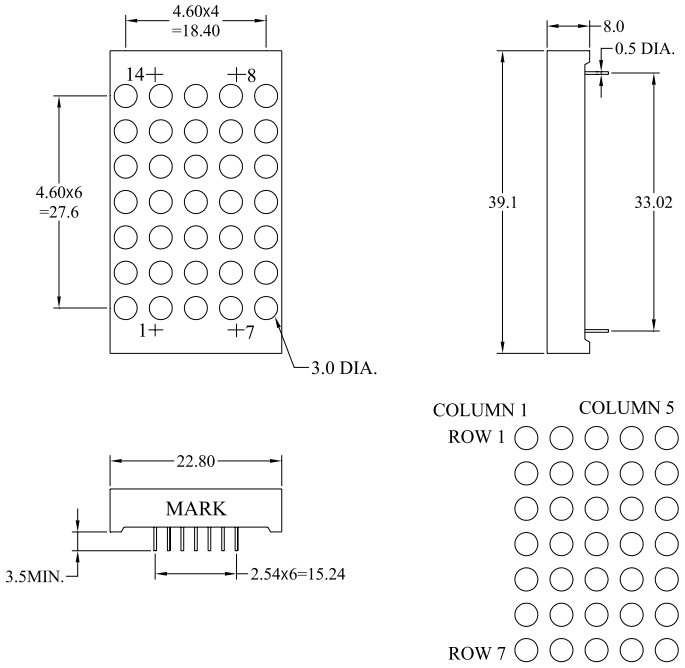
1.2" (30.42mm) 5 x 7 Dot Matrix Display

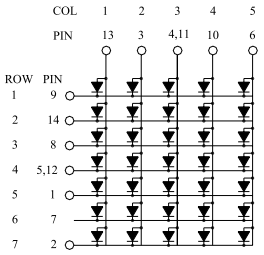
RoHS Compliant

Package Dimensions:

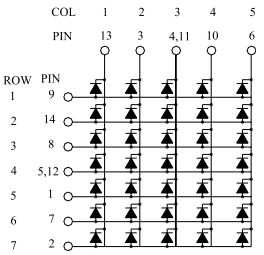


Internal Circuit Diagram:

703-0192:



703-0193:



* All dimensions are in mm
* Tolerance: ±0.25mm unless otherwise noted
* The slope of any PIN may be ±5.0° max

Ant Part No.	LED Chip		Face Colour	
	Material	Emitting Colour	Surface	Segments
703-0192	GaP / GaP	Green	Grey	White
703-0193	GaP / GaP	Green	Grey	White

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Absolute Maximum Ratings at Ta=25°C:

Parameter	Symbol	Rating	Unit
Power Dissipation - Per Dot	P_D	78	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	Ir	100	uA
Reverse Voltage - Per Chip	V_R	5	V
Operating Temperature Range	Topr.	-25 to +85	°C
Storage Temperature Range	Tstg.	-40 to +100	°C
Soldering Temperature	Tsol.	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)	Iv	If=10mA/Dot	1.15	2.9		mcd
Forward Current	Vf	If=20mA/Dot		2.1	2.6	V
Peak Wavelength	λp	If=20mA/Dot		567		nm
Dominant Wavelength	λd	If=20mA/Dot		572		nm
Reverse Current - Per Chip (Leakage Current - Per Chip)	Ir	Vr=5V			100	µA
Spectrum Line Halfwidth	Δλ	If=20mA/Dot		30		nm
Response Time	T			250		ns

Note: Customer's special requirements are also welcome

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

RoHS Compliant

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

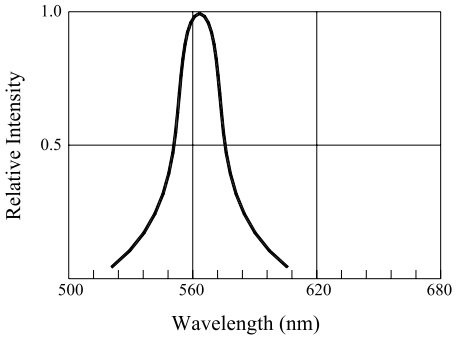

Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

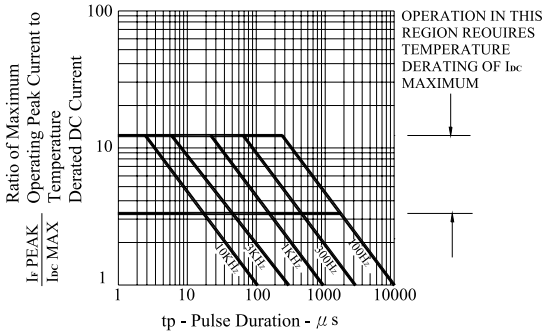

Fig.2 MAXIMUM TOLERABLE PEAK CURRENT VS. PULSE DURATION

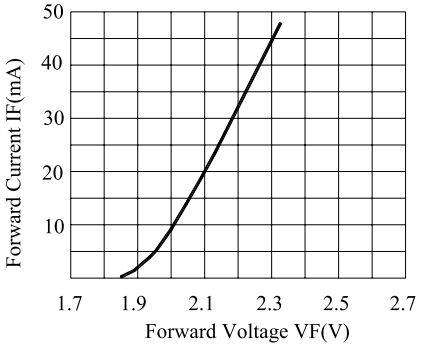

Fig .3 FORWARD CURRENT VS. FORWARD VOLTAGE PER CHIP

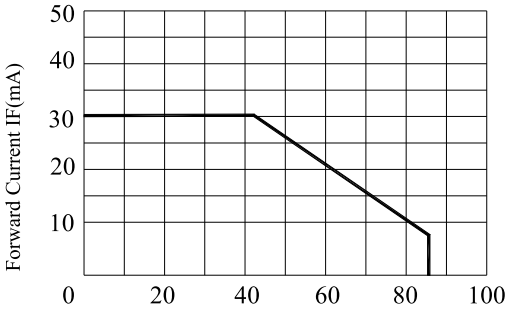

Fig.4 FORWARD CURRENT VS. DERATING CURVE

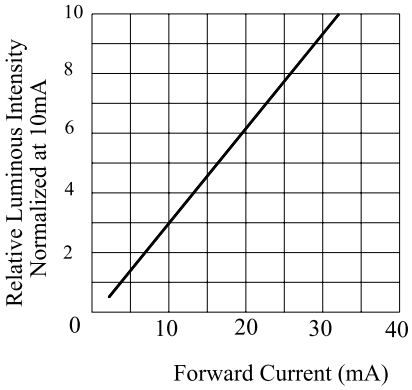

Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

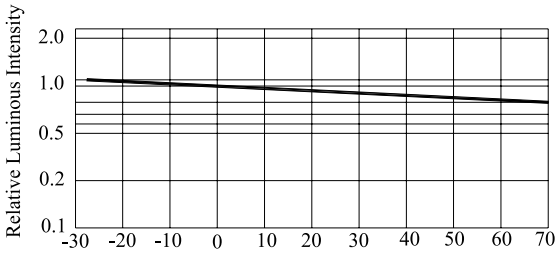

Fig.6 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE