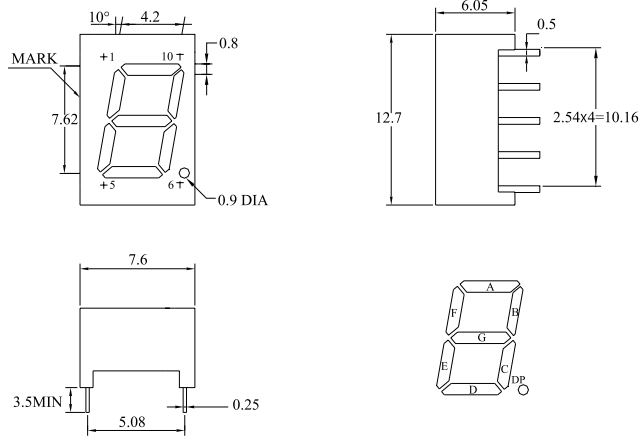


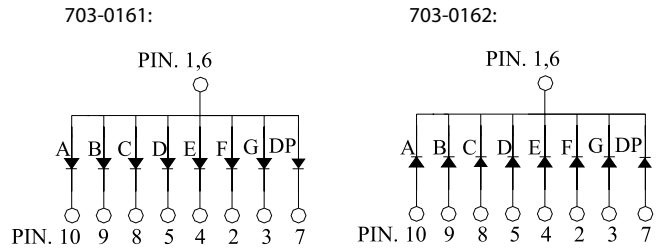
0.3" Single Digit Display



Package Dimensions:



Internal Circuit Diagram:



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

Ant Part No.	LED Chip		Face Colour	
	Material	Emitting Colour	Surface	Segments
703-0161	AlGaAs / GaAs	Deep red	Grey	White
703-0162	AlGaAs / GaAs	Deep red	Grey	White

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0.3" Single Digit Display



Absolute Maximum Ratings at Ta=25°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	μA
Reverse Voltage - Per Chip	V _R	5	V
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 3 sec.	

Electrical & Optical Characteristics: Hyper Red

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity - Per Segment	I _v	I _f =10mA / seg	15.4	35.0		mcd
Forward Voltage	V _f	I _f =20mA / seg		1.9	2.4	V
Peak Wavelength	λ _p	I _f =20mA / seg		650		nm
Dominant Wavelength	λ _d	I _f =20mA / seg		639		nm
Reverse Current - Per Chip (Leakage Current - Per Chip)	I _r	V _r =5V			100	μA
Spectrum Line Halfwidth	Δλ	I _f =20mA / seg		20		deg
Response Time	T			250		nm

Note: Customer's special requirements are also welcome.

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0.3" Single Digit Display



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

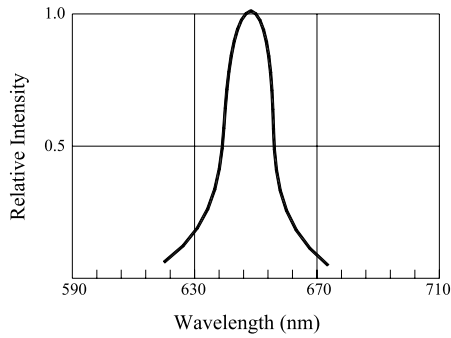


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

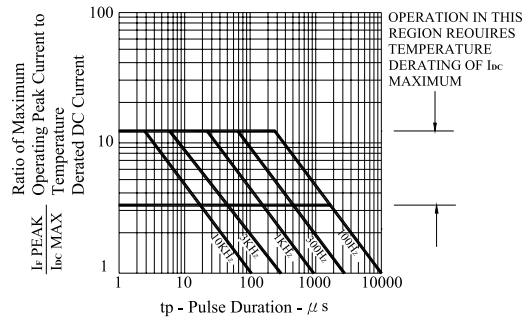


Fig.2 MAXIMUM TOLERABLE PEAK CURRENT VS. PULSE DURATION

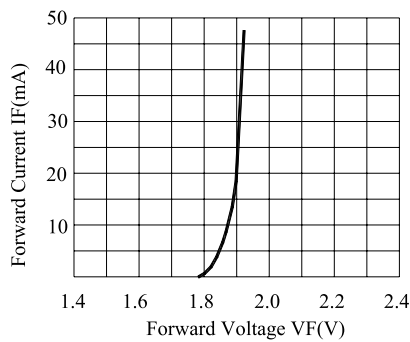


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE PER CHIP

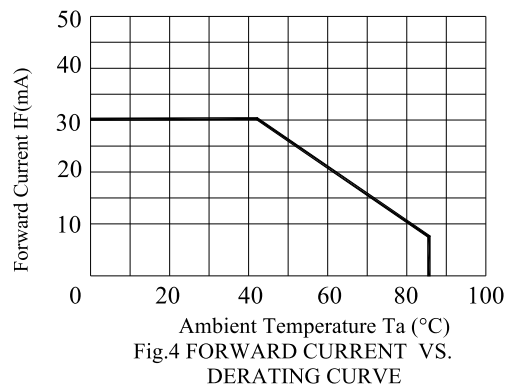


Fig.4 FORWARD CURRENT VS. DERATING CURVE

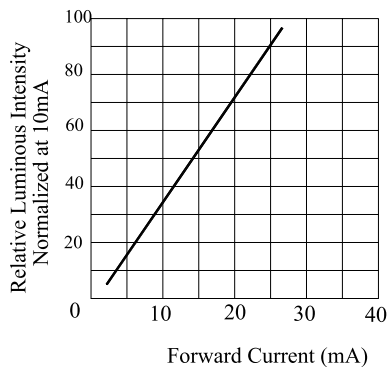


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

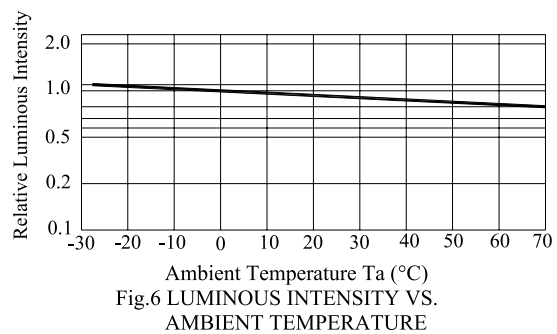


Fig.6 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

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