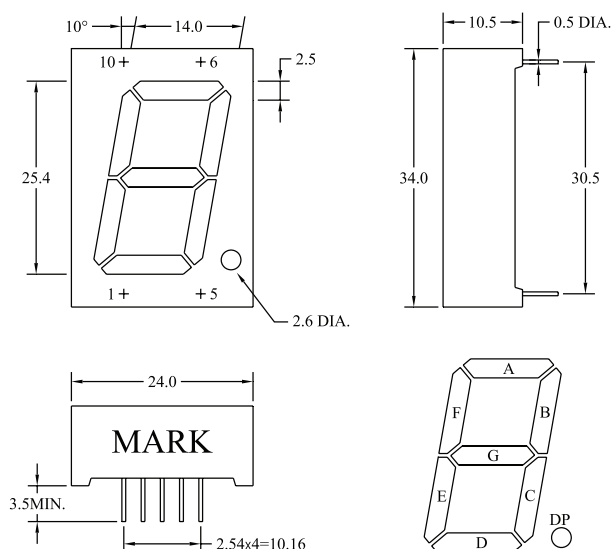


1" Single Digit Display

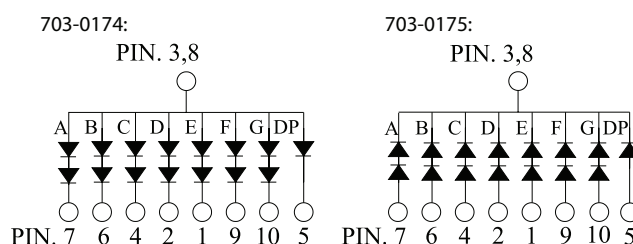


Package Dimensions:



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

Internal Circuit Diagram:



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

Parameter	Symbol		Rating	Unit
Power Dissipation - Pre Segment	P _D	DP	78	mW
		Seg	156	
Pulse Current (1/10 Duty Cycle, 0.1ms Pulse Width)	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.	



1" Single Digit Display



Electrical & Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity - Per Segment	I_v	$I_f=10\text{mA} / \text{seg}$	3.7	8.5		mcd
Forward Voltage	V_f	DP $I_f=20\text{mA} / \text{seg}$		2.1	2.6	V
		Seg $I_f=20\text{mA} / \text{seg}$		4.2	5.2	
Peak Wavelength	λ_p	$I_f=20\text{mA} / \text{seg}$		635		nm
Dominant Wavelength	λ_d	$I_f=20\text{mA} / \text{seg}$		626		nm
Reverse Current - Per Chip (Leakage Current - Per Chip)	I_r	$V_r=5\text{V}$			100	μA
Spectrum Line Halfwidth	$\Delta\lambda$	$I_f=20\text{mA} / \text{seg}$		35		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)

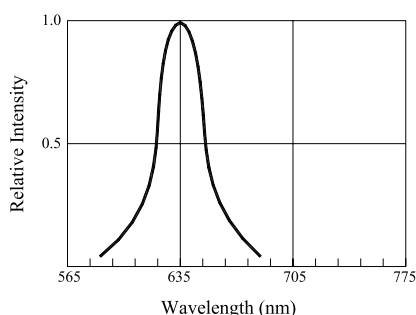


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

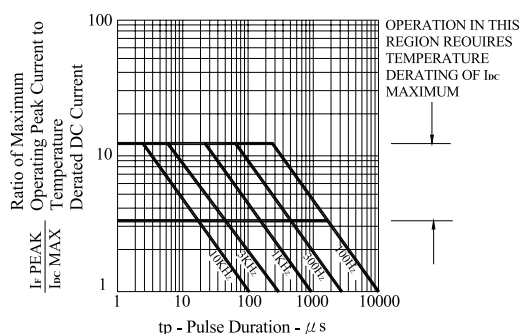


Fig.2 MAXIMUM TOLERABLE PEAK CURRENT VS. PULSE DURATION

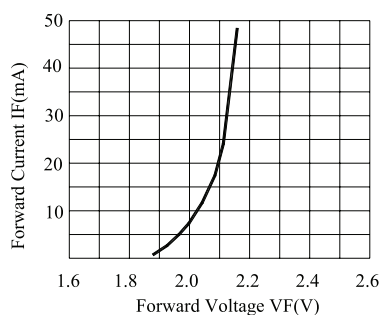


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE PER CHIP

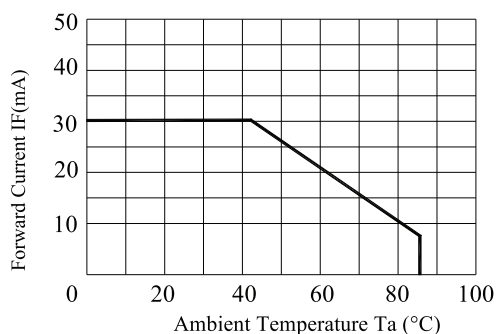


Fig.4 FORWARD CURRENT VS. DERATING CURVE

1" Single Digit Display

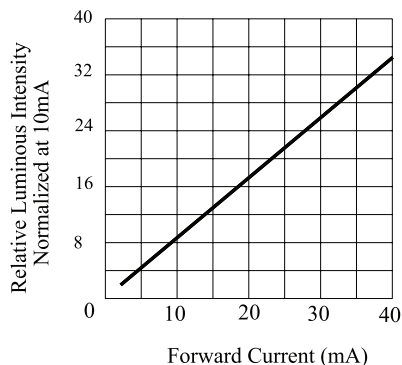


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

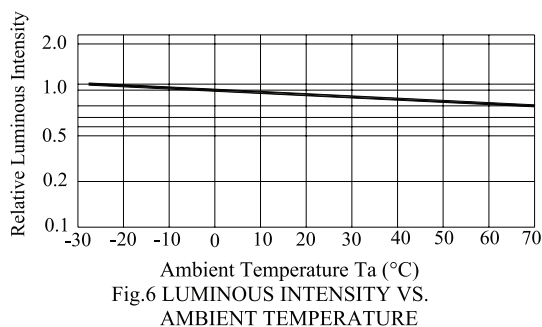


Fig.6 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

Part Number Table

LED Chip		Face Colour		Part Number
Material	Emitting Colour	Surface	Segments	
GaAsP / Gap	Orange	Grey	White	703-0174
GaAsP / Gap	Orange	Grey	White	703-0175

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