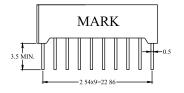
10 Segment Light Bar

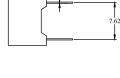




Package Dimensions:

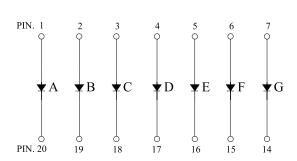
2.54







Internal Circuit Diagram:



All dimensions are in mm Tolerance: ±0.25mm

The slope angle of any PIN may be ±5° max

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Power Dissipation - Pre Segment	Po	78	mW
Pulse Current (1/10 Duty Cycle, 0.1ms Pulse Width) - Per Chip	IFP	100	mA
Forward Current - Per Chip	lF	30	mA
Reverse (Leakage) Current - Per Chip	lr	100	μΑ
Reverse Voltage - Per Chip	VR	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 3 sec.	



10 Segment Light Bar



Electrical & Optical Characteristics:

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Luminous Intensity - Per Segment	lv	If=10mA / Dot	1.15	2.8		mcd
Forward Voltage	Vf	If=20mA / Dot		2.1	2.6	V
Peak Wavelength	λр	If=20mA / Dot		585		nm
Dominant Wavelength	λd	If=20mA / Dot		590		nm
Reverse Current - Per Chip (Leakage Current - Per Chip)	lr	Vr=5V			100	μΑ
Spectrum Line Halfwidth	Δλ	If=20mA / Dot		35		deg
Response Time	Т			250		nm

Note: Customer's special requirements are also welcome.

Typical Electrical & Optical Characteristics Curves:

(25°C Ambient temperature unless otherwise noted)

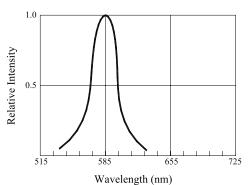


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

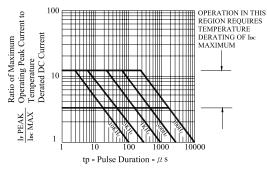
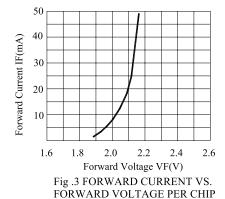
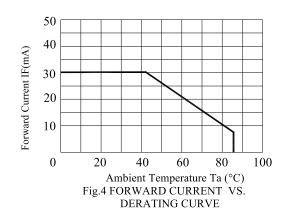


Fig.2 MAXIMUM TOLERABLE PEAK CURRENT VS. PULSE DURATION



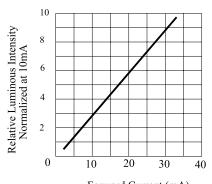


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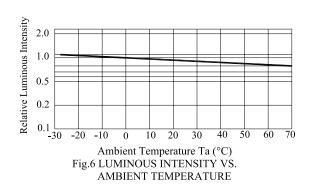


10 Segment Light Bar





Forward Current (mA)
Fig.5 RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



Part Number Table

LED Chip		Face (Part Number			
	Material	Emitting Colour	Surface	Segments	Part Number	
l	GaAsP / GaP	Yellow	Grey	White	703-0189	

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