

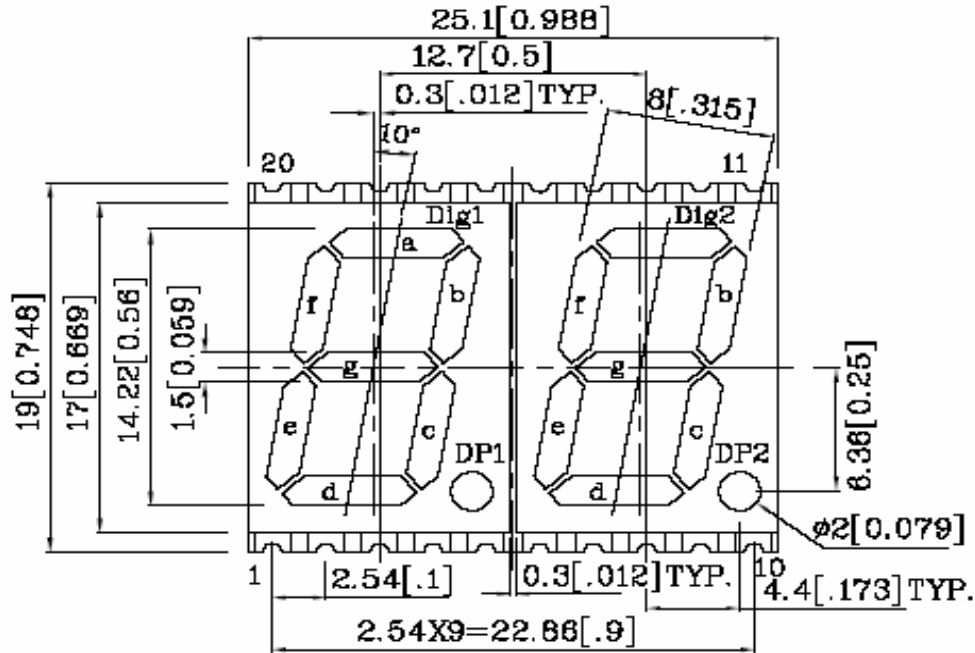
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Dimensions / Informations

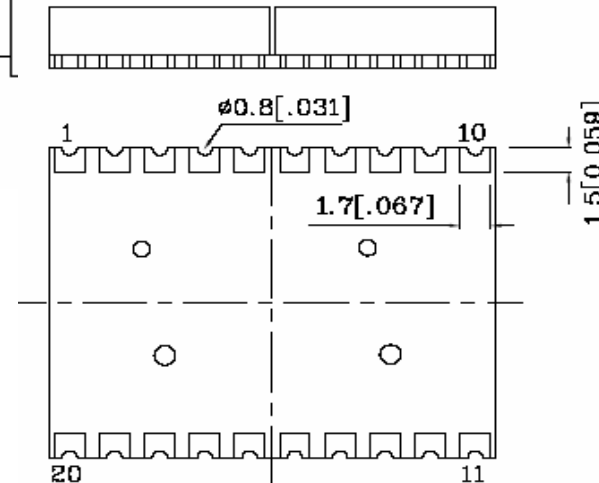
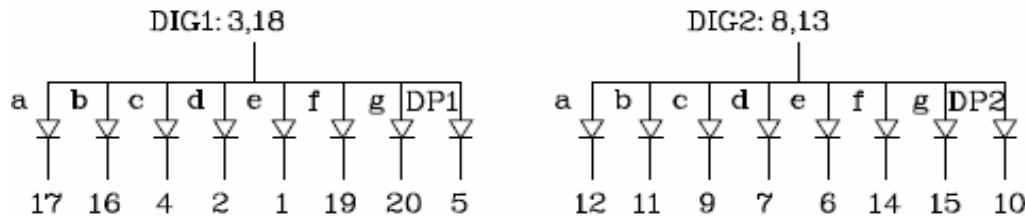


Features

- Low Current Operation
- Excellent Character appearance
- Easy mounting on P.C. Board or Sockets
- Standard High Brightness
- Mechanical Rugged
- Gray Face / White Segment
- Moisture Sensitivity Level: Level 4

All Dimensions are in millimeters (inches).
Tolerance is +/- 0,25 (0,01") unless otherwise specified.
Specifications are subject to change without notice.

Diode Drive Construction



**SMT Segment Display Digit
Height 14,22mm**

Part No.: **M21C8003**

Customer:

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	30.09.2010
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 7

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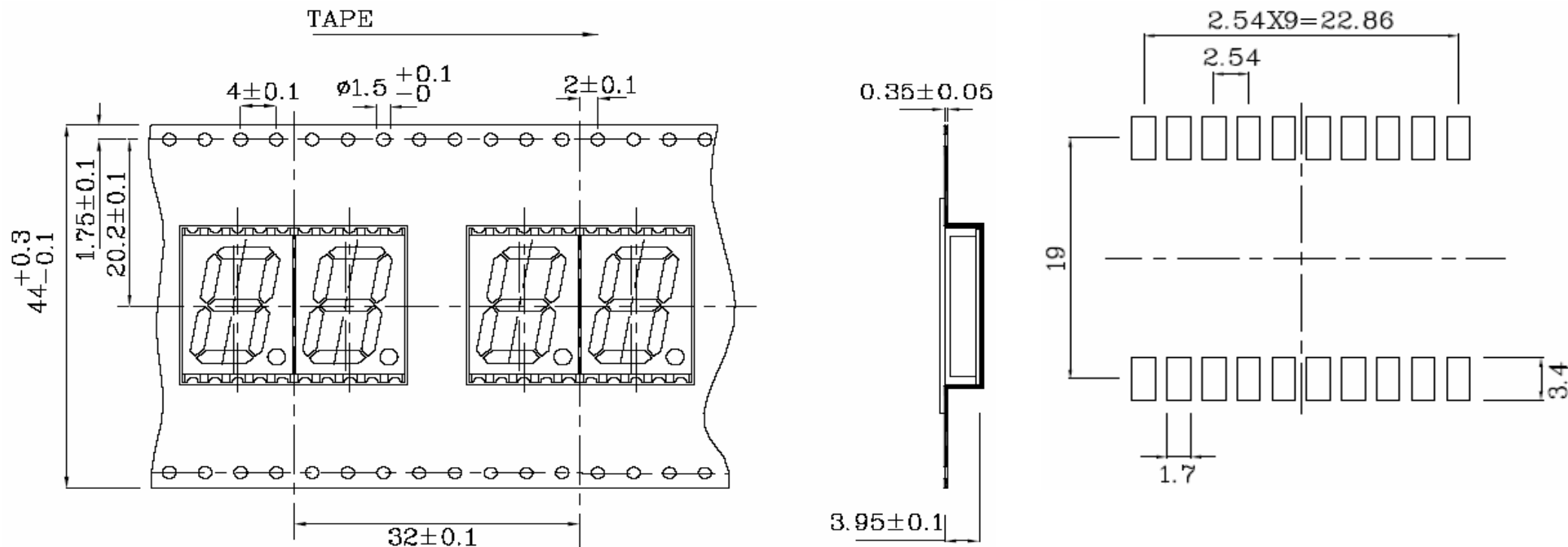


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Tape specifications

P.C.B. Layout



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Description

Part Number	Emitting Color	Emitting Material	Luminous Intensity IF=10mA μ cd		Wavelength nm	Description
			min	max,		
M21C8003	Red	InGaAlP	4700	29990	650	Commun Anode Right Hand Decimal Point

Operating Characteristics (TA=25°C)		InGaAlP	Unit
Forward Voltage (typ). (IF=10mA)	VF	1,85	V
Forward Voltage (typ). (IF=10mA)	VF	2,5	V
Reverse Current (Max.) (Vr=5V)	IR	10	μ A
Wavelength of Peak Emission (typ. If=10mA)	P	650	nm
Wavelength / Dominant Emission (typ. If=10mA)	D	635	nm
Spectral Line Full Width at Half-Maximum (typ. 10mA)	Δ	28	nm
Capacitance (typ) (Vf=0V, f=1Mhz)	C	35	pF

Absolute Maximum Ratings (TA=25°C)		InGaAlP	Unit
Reverse Voltage	VF	5	V
Forward Current	IF	30	mA
Forward Current (peak) 1/10Duty Cycle 0,1ms Pulse Width	iFS	185	mA
Power Dissipation	PT	75	mW
Operating Temperature	TA	-.40 ~+85	°C
Storage Temperature	Tstg	-.40 ~+85	

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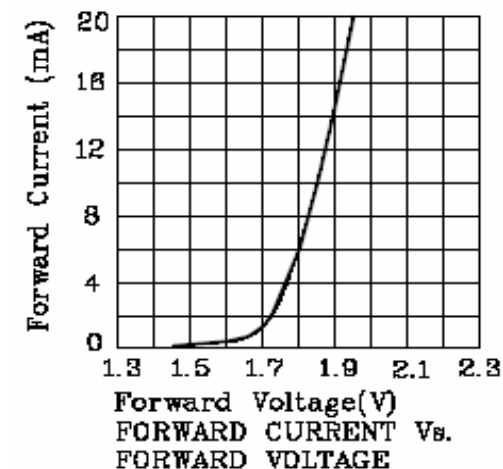
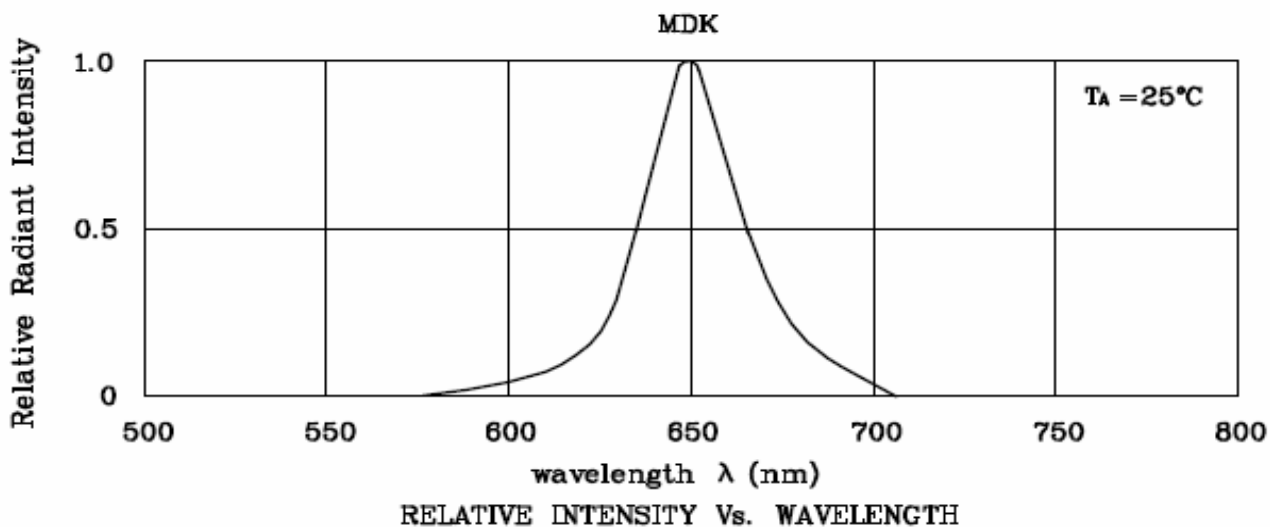
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Characteristics



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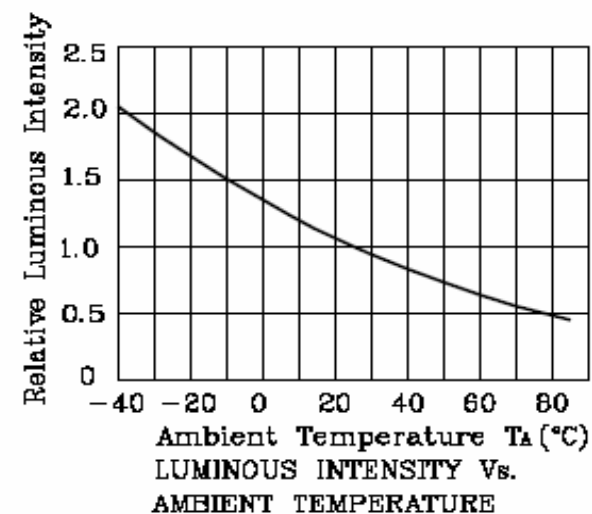
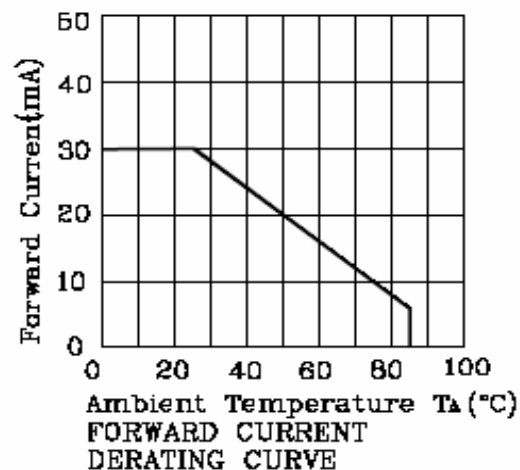
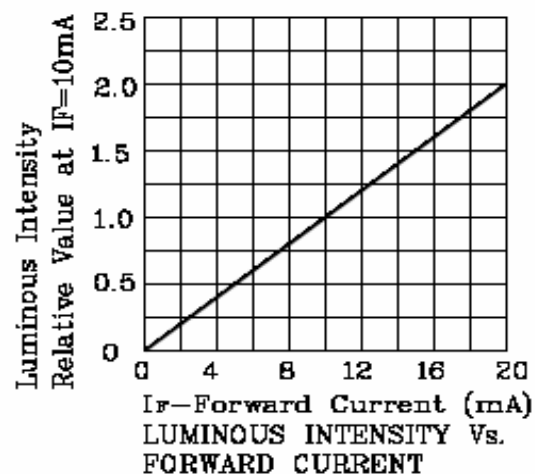
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Characteristics



If special sorting is required (e.g. binning based on forward voltage, Luminous intensity /luminous flux, or wavelength).

the typical accuracy of the sorting process is as follows.

Wavelength: +/-1nm

Luminous Intensity / Luminous Flux: +/- 15%

Forward Voltage: +/-0,1V

Note: Accuracy may depend on the sorting parameters.

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Ordering Informations

Serie	Digit Height Code	Quantity of Digits	Model Number	Diode Drive Code	Emitting Color (nm)	Surface Color Code	Segment Color Code	No Function	ROHS	Package
M21C8003	56	2	1	A	650	2	1	XX	R	TR

56= 0,56" Digit Dimension	2= Dual Digit	1= Model Number 1	A= Commun Anode
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2= Gray Surface	1= White Diffused	XX= No function	R= ROHS conform N= NON ROHS conform	TR= Tape Reel Packing
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Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)



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