

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











User's Guide **D0109MT-20-0901**

VFD- RoHS Compliant

(Vacuum Fluorescent Display Module)

_____ For product support, contact

Newhaven Display International 2511 Technology Drive, #101 Elgin, IL 60124

Tel: (847) 844-8795 Fax: (847) 844-8796

February 22, 2008



Vacuum Fluorescent Display Specification

PART NUMBER: D0109MT-20-0901

FEATURES: 8 Digits, 7-Segmented, Automotive - Measurement

APPLICATION: Character Display (7-Segmented)

RATINGS: Below

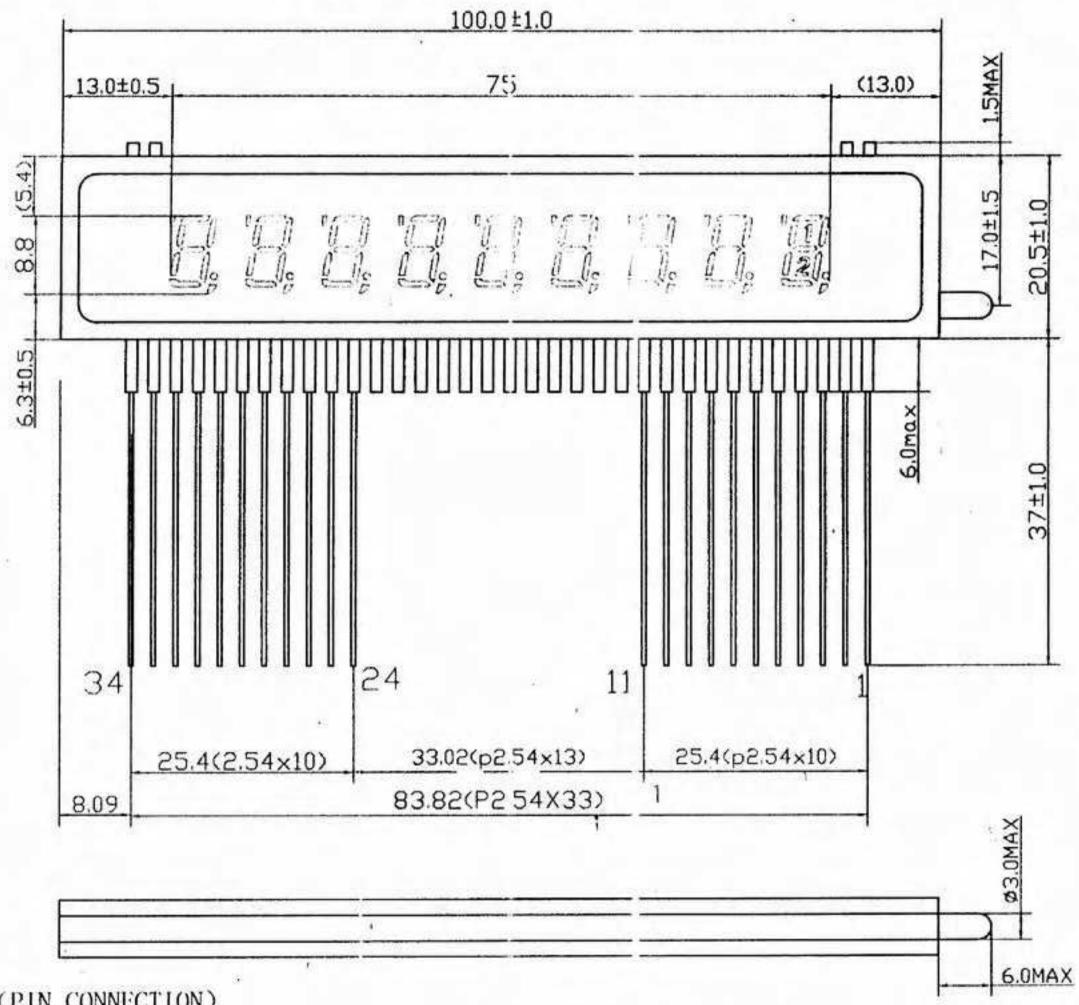
	Panel Length	า	P.L.	100.0	mm		
Outer Dimensions	Panel Heigh	t	P.H.	20.5	mm		
	Panel Thickr	ness	P.T.	6.5	mm		
		•					
Leads	Lead Pitch		L.P.	2.54	mm		
	Lead Out		-	SIL			
Character Size	Character He	eight	C.H.	8.0	mm		
	Character W	idth	C.W.	4.0	mm		
Item	Symbol	Min.	Recommended	Max.	Unit		
Filament Voltage	Ef	3.42	3.80	4.18	Vac		
Peak Grid Voltage	ес	10.8	40.0	50.0	Vp-p		
Peak Anode Voltage	eb	10.8	40.0	50.0	Vp-p		
-	tp	-	-	-	-		
Duty	Du	-	1/15	-	-		
Cycle							
Pulse Width	tp	-	100	-	uS		
Operating Temperature	Topr	-20	-	+70	С		
Storage Temperature	Tstg	-55	-	+ 85	С		
Color of Illumination			Green				

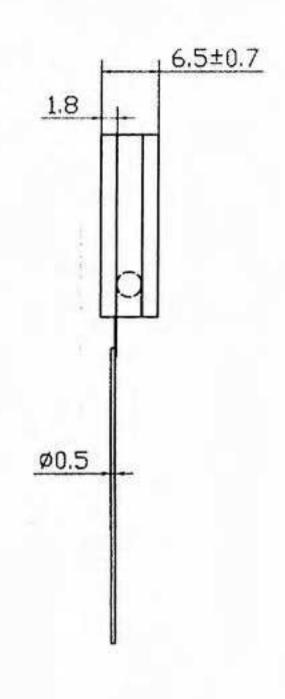
D0109MT-20-0901

Electrical Characteristics

	Symbol	Test Condition	Min.	Typical	Max.	Unit
Item						
Filament Current	lf	Ef = 3.8 Vac	97.2	108.0	118.8	mA _{ac}
	-	eb = ec = 0	_	-	-	-
Anode Current	ib / 1G	Ef = 3.8 Vac	-	9.0	18.0	mA _{p-p}
	ib / 2~9G	eb = 40.0 V _{p-p}	-	8.0	16.0	mA _{p-p}
	-	ec = 40.0 V _{p-p}	-	-	-	mA _{p-p}
	-	Du = 1/15	-	-	-	mA _{p-p}
	-	tp = 100uS	-	-	-	mA _{p-p}
Crid Current	in / 1, 0C			10.0	20.0	Λ
Grid Current	ic / 1~9C		-	10.0	20.0	mA _{p-p}
	-		-	-	-	mA _{p-p}
	-		-	-	-	mA _{p-p}
	-		-	-	-	mA _{p-p}
	-		-	-	-	mA _{p-p}
	. (6)			1000		., 2
	L(G)		500	1000	-	cd/m ²
Luminance			(246)	(292)		fL
Luminance Ratio	Lmin/Lmax		50	-	-	%
Grid Cut-off Voltage	Ecco	Ef = 3.8 Vac eb = 40.0 Vdc	-4.5	-	-	Vdc
Anode Cut-off Voltage	Ebco	Ef = 3.8 Vac ec = 40.0 Vp-p	-4.5	-	-	Vdc
		Du = 1/15 tp = 100uS				

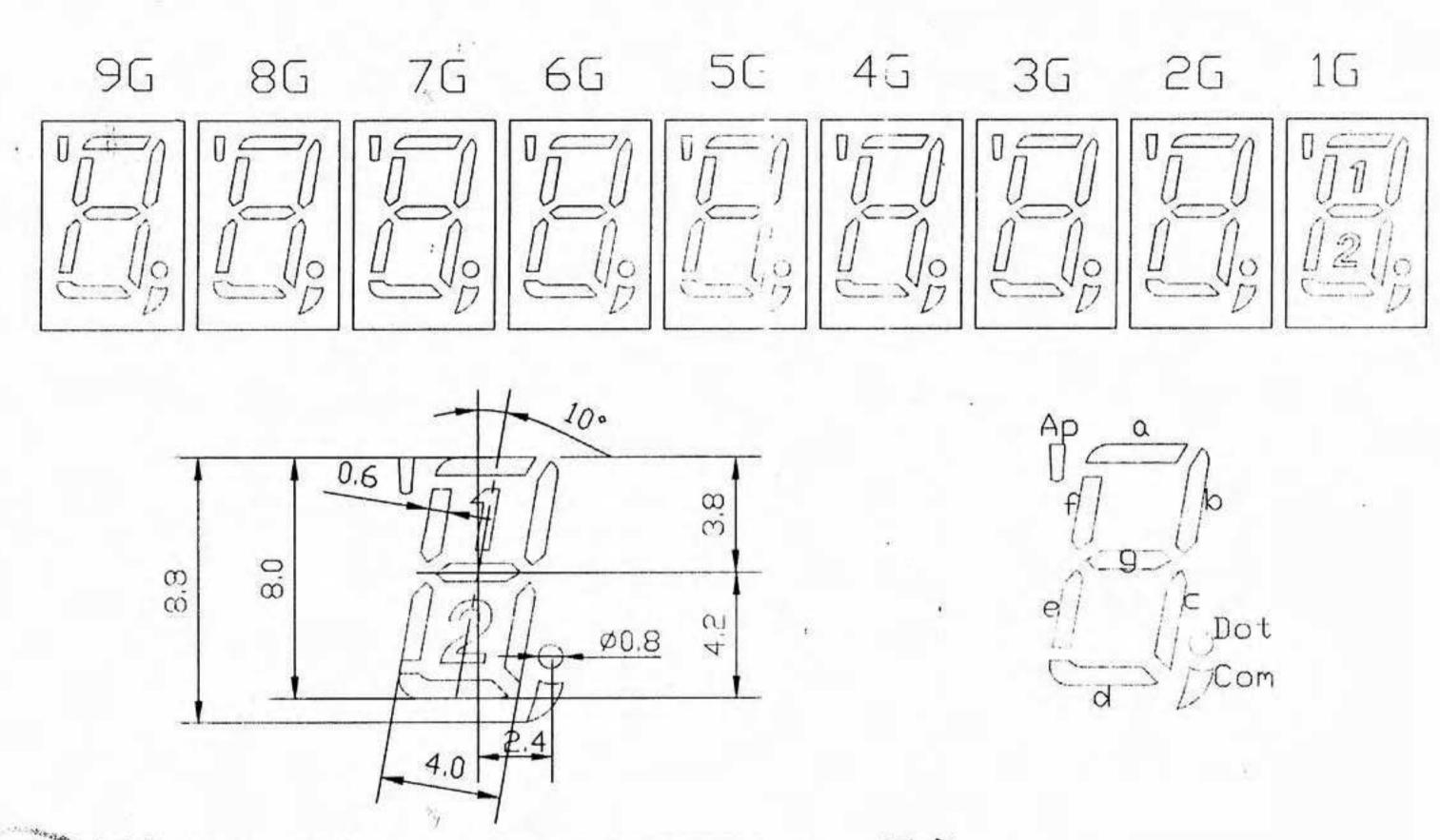
Drive Mode = Dynamic State





管脚连接 (PIN CONNECTION)

管脚序号 (PIN NO.) 1 2				and the second second							the second second	-			COURT ASSESSED	water transfer of the last of	-				-	And in case of the last of the	-		_	_		_				40,000,000
连接(CONNECTION) F Q	b	12	C	dot	COM	1G	2G	3G	4 5	NC	NC	NI:	NC	NC	NC	NC	NC	NC	NC	NC	NC	<u>5G</u>	6G	7G	8G	90	d	e	9	f A	P	F



显示颜色(COLOR OF ILUMINATION): 绿色 GREEN):X=0.250,Y=0.440