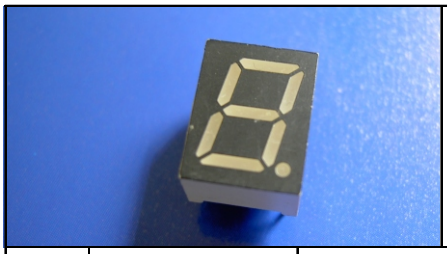
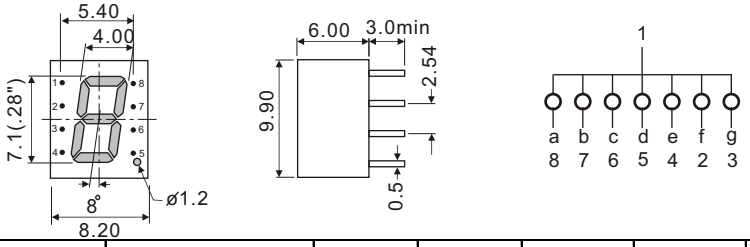
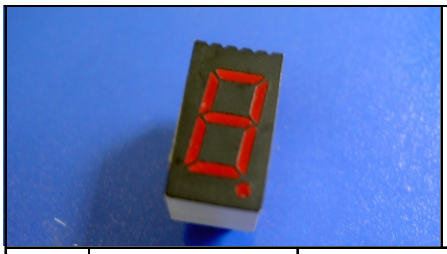
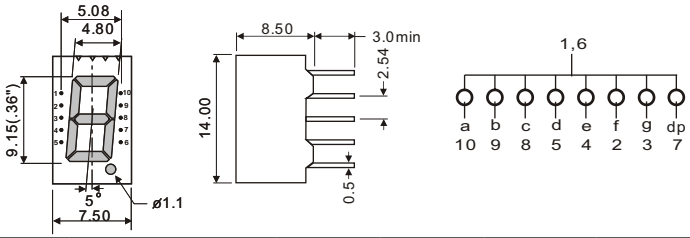
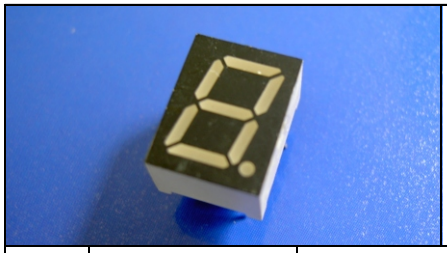
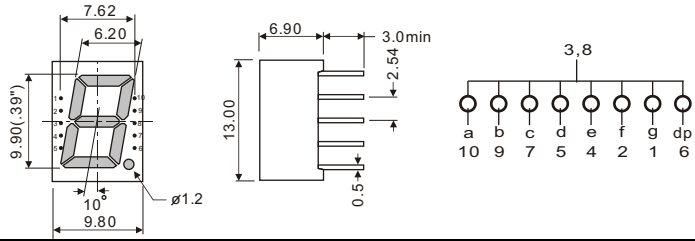
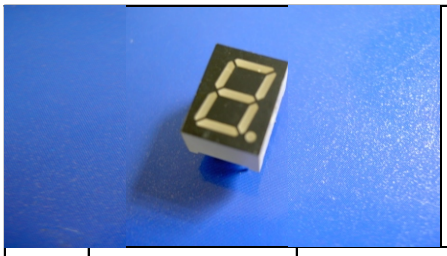
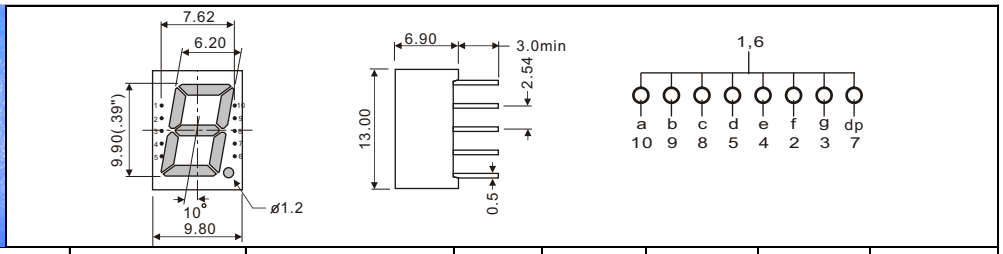
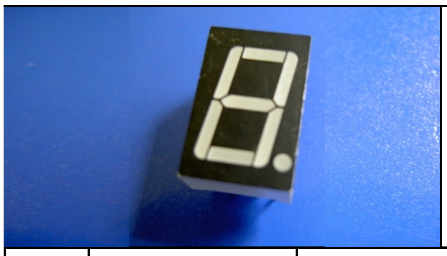
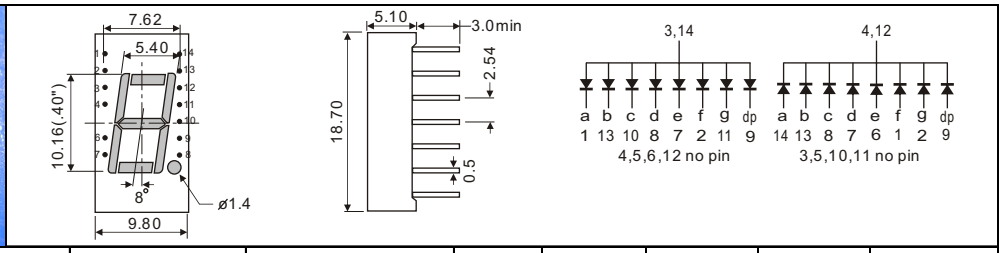
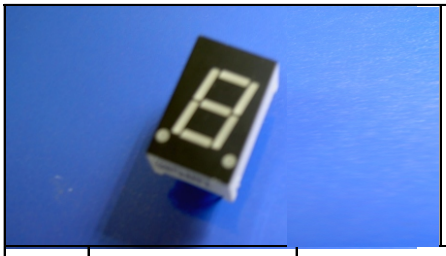
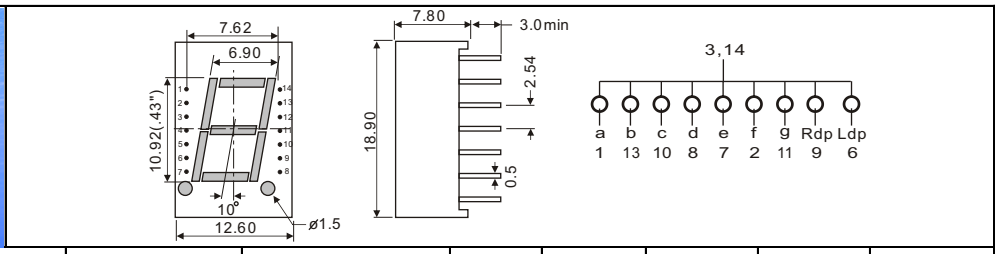
1 Digit Numeric Displays

0.28″ ~ 0.39″ **IF=20mA/segment Ta=25℃**

Front View	Device No		Color		Wavelength (nm)		VF	Brightness (ucd)	
	Common Anode	Common Cathode	Emitter	Surface, Segment	λp	λd	Typical (V)	Minimum	Typical
									
0.28″ 8pin	HDA-2812	HDC-2812	hi-red	GW,BW,BR,RR	700	658	2.1	600	1200
	HDA-2813	HDC-2813	yellow green	GW,BW,GGn	568	564	2.1	900	1800
	HDA-2814	HDC-2814	yellow	GW,BW,GY,BY	585	583	2.1	1100	2200
	HDA-2815	HDC-2815	hi-eff red	GW,BW,BR,RR	635	620	2.0	1400	2800
	HDA-2816DR	HDC-2816DR	super red	GW,BW,BR,RR	660	645	1.8	2500	5000
	HDA-2816CR	HDC-2816CR	super red	GW,BW,BR,RR	660	645	1.8	3000	6000
									
0.36″ 10pin	HDA-3612	HDC-3612	hi-red	GW,BW,BR,RR	700	658	2.1	600	1200
	HDA-3613	HDC-3613	yellow green	GW,BW,GGn	568	564	2.1	1500	3000
	HDA-3614	HDC-3614	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-3615	HDC-3615	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-3616DR	HDC-3616DR	super red	GW,BW,BR,RR	660	645	1.8	3000	6000
	HDA-3616CR	HDC-3616CR	super red	GW,BW,BR,RR	660	645	1.8	3500	7000
									
0.39″ 10pin	HDA-3912	HDC-3912	hi-red	GW,BW,BR,RR	700	658	2.1	600	1200
	HDA-3913	HDC-3913	yellow green	GW,BW,GGn	565	564	2.1	1500	3000
	HDA-3914	HDC-3914	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-3915	HDC-3915	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-3916DR	HDC-3916DR	super red	GW,BW,BR,RR	660	645	1.8	3000	6000
	HDA-3916CR	HDC-3916CR	super red	GW,BW,BR,RR	660	645	1.8	3500	7000

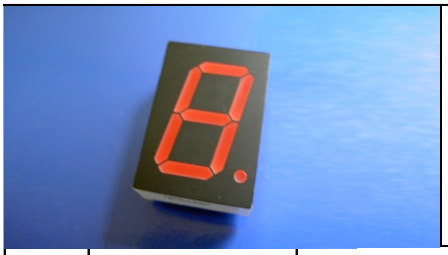
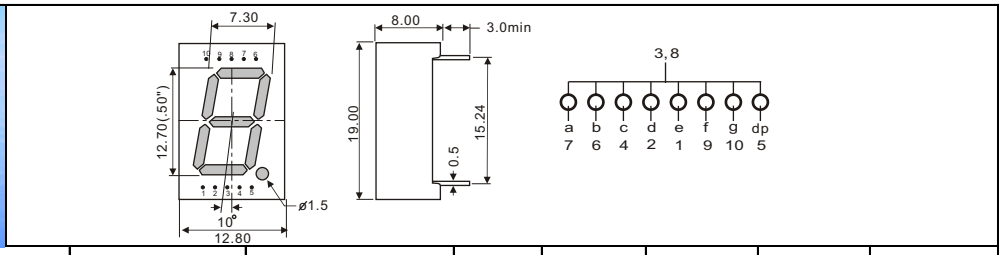
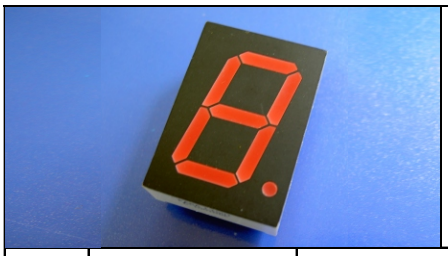
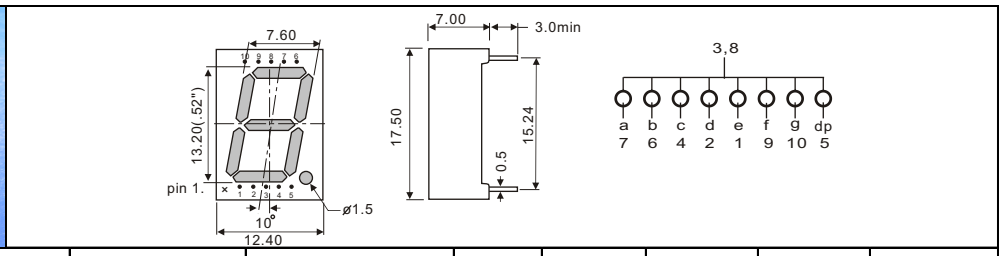
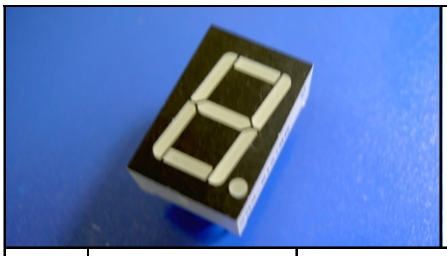
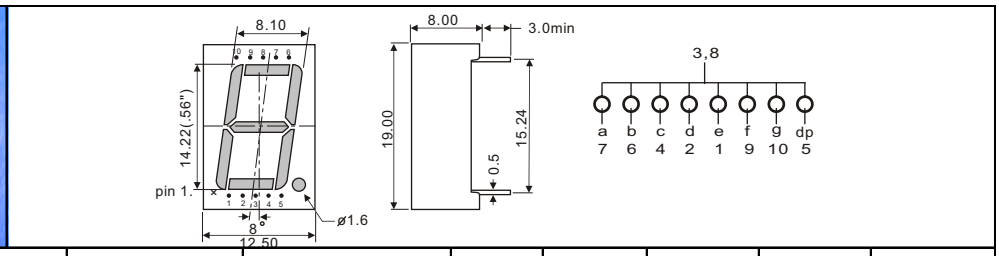
1 Digit Numeric Displays

0.39″ ~ 0.43″ **IF=20mA/segment Ta=25℃**

Front View	Device No		Color		Wavelength (nm)		VF	Brightness (ucd)	
	Common Anode	Common Cathode	Emitter	Surface, Segment	λp	λd	Typical (V)	Minimum	Typical
									
0.39″ 10pin	HDA-3912-A	HDC-3912-A	hi-red	GW,BW,BR,RR	700	658	2.1	600	1200
	HDA-3913-A	HDC-3913-A	yellow green	GW,BW,GGn	565	564	2.1	1500	3000
	HDA-3914-A	HDC-3914-A	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-3915-A	HDC-3915-A	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-3916DR-A	HDC-3916DR-A	super red	GW,BW,BR,RR	660	645	1.8	3000	6000
	HDA-3916CR-A	HDC-3916CR-A	super red	GW,BW,BR,RR	660	645	1.8	3500	7000
									
0.40″ 14pin	HDA-4012	HDC-4012	hi-red	GW,BW,BR,RR	700	658	2.1	600	1200
	HDA-4013	HDC-4013	yellow green	GW,BW,GGn	568	564	2.1	1500	3000
	HDA-4014	HDC-4014	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-4015	HDC-4015	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-4016DR	HDC-4016DR	super red	GW,BW,BR,RR	660	645	1.8	3000	6000
	HDA-4016CR	HDC-4016CR	super red	GW,BW,BR,RR	660	645	1.8	3500	7000
									
0.43″ 14pin	HDA-4312	HDC-4312	hi-red	GW,BW,BR,RR	700	658	2.1	750	1500
	HDA-4313	HDC-4313	yellow green	GW,BW,GGn	568	564	2.1	1750	3500
	HDA-4314	HDC-4314	yellow	GW,BW,GY,BY	585	583	2.1	1250	2500
	HDA-4315	HDC-4315	hi-eff red	GW,BW,BR,RR	635	620	2.0	1750	3500
	HDA-4316DR	HDC-4316DR	super red	GW,BW,BR,RR	660	645	1.8	3000	6500
	HDA-4316CR	HDC-4316CR	super red	GW,BW,BR,RR	660	645	1.8	3500	7500

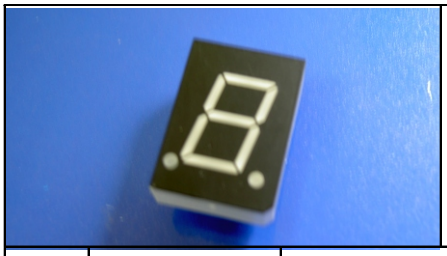
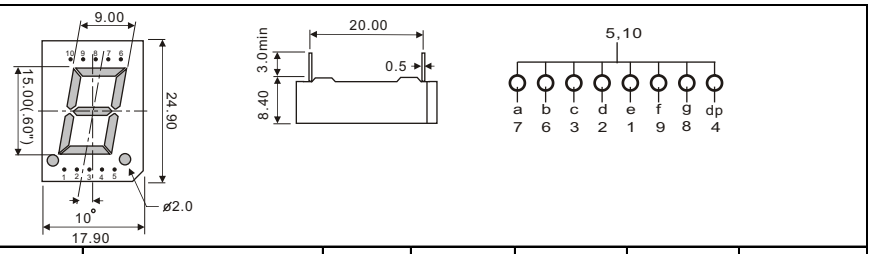
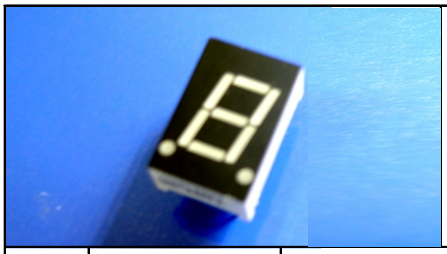
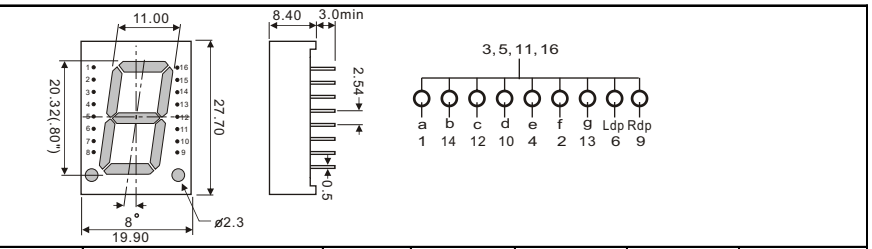
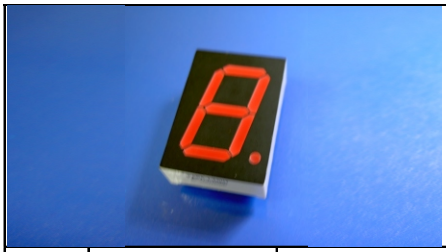
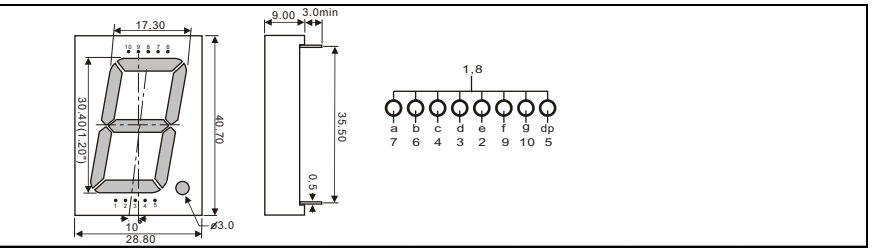
1 Digit Numeric Displays

0.50″ ~ 0.56″ **IF=20mA/segment Ta=25℃**

Front View	Device No		Color		Wavelength (nm)		VF	Brightness (ucd)	
	Common Anode	Common Cathode	Emitter	Surface, Segment	λp	λd	Typical (V)	Minimum	Typical
									
0.50″ 10pin	HDA-5012	HDC-5012	hi-red	GW,BW,BR,RR	700	658	2.1	750	1500
	HDA-5013	HDC-5013	yellow green	GW,BW,GGn	568	564	2.1	1500	3000
	HDA-5014	HDC-5014	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-5015	HDC-5015	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-5016DR	HDC-5016DR	super red	GW,BW,BR,RR	660	645	1.8	3500	7000
	HDA-5016CR	HDC-5016CR	super red	GW,BW,BR,RR	660	645	1.8	4000	8000
									
0.52″ 10pin	HDA-5212	HDC-5212	hi-red	GW,BW,BR,RR	700	658	2.1	750	1500
	HDA-5213	HDC-5213	yellow green	GW,BW,GGn	568	564	2.1	1500	3000
	HDA-5214	HDC-5214	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-5215	HDC-5215	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-5216DR	HDC-5216DR	super red	GW,BW,BR,RR	660	645	1.8	3500	7000
	HDA-5216CR	HDC-5216CR	super red	GW,BW,BR,RR	660	645	1.8	4000	8000
									
0.56″ 10pin	HDA-5612	HDC-5612	hi-red	GW,BW,BR,RR	700	658	2.1	750	1500
	HDA-5613	HDC-5613	yellow green	GW,BW,GGn	568	564	2.1	1500	3000
	HDA-5614	HDC-5614	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-5615	HDC-5615	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-5616DR	HDC-5616DR	super red	GW,BW,BR,RR	660	645	1.8	3500	7000
	HDA-5616CR	HDC-5616CR	super red	GW,BW,BR,RR	660	645	1.8	4000	8000

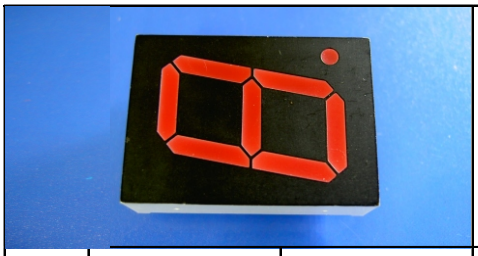
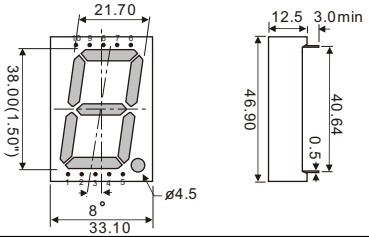
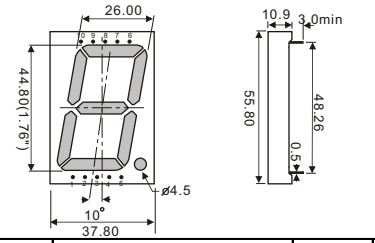
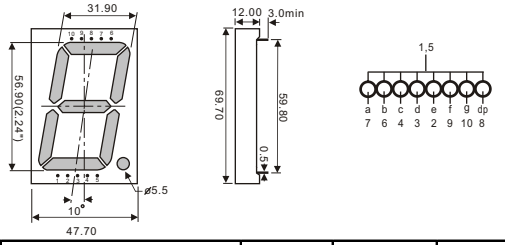
1 Digit Numeric Displays

0.60″ ~ 1.2″ **IF=20mA/segment Ta=25℃**

Front View	Device No		Color		Wavelength (nm)		VF	Brightness (ucd)	
	Common Anode	Common Cathode	Emitter	Surface, Segment	λp	λd	Typical (V)	Minimum	Typical
									
0.60″ 10pin	HDA-6012	HDC-6012	hi-red	GW,BW,BR,RR	700	658	2.1	750	1500
	HDA-6013	HDC-6013	yellow green	GW,BW,GGn,BGn	568	564	2.1	1500	3000
	HDA-6014	HDC-6014	yellow	GW,BW,GY,BY	585	583	2.1	1250	2500
	HDA-6015	HDC-6015	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-6016DR	HDC-6016DR	super red	GW,BW,BR,RR	660	645	1.8	3500	7000
	HDA-6016CR	HDC-6016CR	super red	GW,BW,BR,RR	660	645	1.8	4250	8500
									
0.80″ 16pin	HDA-8012	HDC-8012	hi-red	GW,BW,BR,RR	700	658	2.1	800	1600
	HDA-8013	HDC-8013	yellow green	GW,BW,GGn,BGn	568	564	2.1	1600	3200
	HDA-8014	HDC-8014	yellow	GW,BW,GY,BY	585	583	2.1	1100	2200
	HDA-8015	HDC-8015	hi-eff red	GW,BW,BR,RR	635	620	2.0	1600	3200
	HDA-8016DR	HDC-8016DR	super red	GW,BW,BR,RR	660	645	1.8	3750	7500
	HDA-8016AR	HDC-8016AR	super red	GW,BW,BR,RR	660	645	2.0	6250	12500
									
1.2″ 10pin	HDA-12012	HDC-12012	hi-red	GW,BW,BR,RR	700	658	4.4	1750	3500
	HDA-12013	HDC-12013	yellow green	GW,BW,GGn,BGn	568	564	4.4	2500	5000
	HDA-12014	HDC-12014	yellow	GW,BW,GY,BY	585	583	4.2	2000	4000
	HDA-12015	HDC-12015	hi-eff red	GW,BW,BR,RR	635	620	4.0	2500	5000
	HDA-12016DR	HDC-12016DR	super red	GW,BW,BR,RR	660	645	3.4	5000	10000
	HDA-12016AR	HDC-12016AR	super red	GW,BW,BR,RR	660	645	4.0	6500	15000

1 Digit Numeric Displays

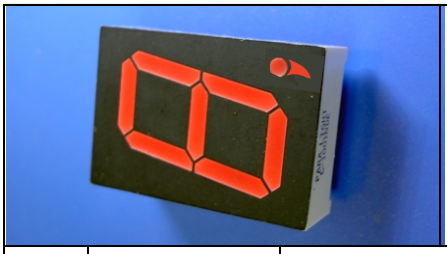
1.5″ ~ 2.3″ **IF=20mA/segment Ta=25℃**

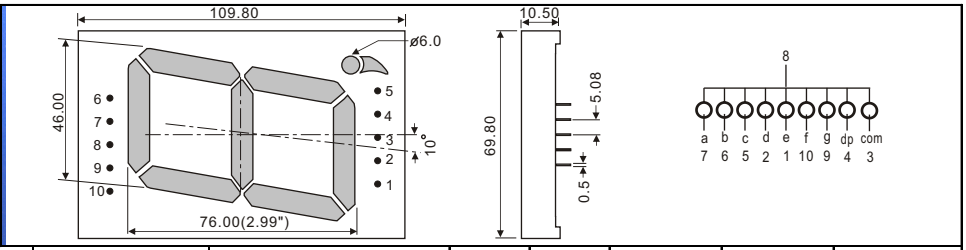
Front View	Device No		Color		Wavelength (nm)		VF Typical (V)	Brightness (ucd)	
	Common Anode	Common Cathode	Emitter	Surface, Segment	λp	λd		Minimum	Typical
									
1.5″ 10pin	HDA-15013	HDC-15013	yellow green	GW,BW,GGn,BGn	568	564	4.4	2500	5000
	HDA-15014	HDC-15014	yellow	GW,BW,GY,BY	585	583	4.4	2000	4000
	HDA-15015	HDC-15015	hi-eff red	GW,BW,BR,RR	635	620	4.0	2500	5000
	HDA-15016DR	HDC-15016DR	super red	GW,BW,BR,RR	660	645	3.4	5000	10000
	HDA-15016AR	HDC-15016AR	super red	GW,BW,BR,RR	660	645	4.0	7500	15000
									
1.8″ 10pin	HDA-18013	HDC-18013	yellow green	GW,BW,GGn,BGn	568	564	6.6	3500	7000
	HDA-18014	HDC-18014	yellow	GW,BW,GY,BY	585	583	6.3	3000	6000
	HDA-18015	HDC-18015	hi-eff red	GW,BW,BR,RR	635	620	6.0	3500	7000
	HDA-18016DR	HDC-18016DR	super red	GW,BW,BR,RR	660	645	5.1	6000	12000
	HDA-18016AR	HDC-18016AR	super red	GW,BW,BR,RR	660	645	6.0	8500	17000
									
2.3″ 10pin	HDA-23013	HDC-23013	yellow green	GW,BW,GGn,BGn	568	564	8.8	6000	12000
	HDA-23014	HDC-23014	yellow	GW,BW,GY,BY	585	583	8.4	5000	10000
	HDA-23015	HDC-23015	hi-eff red	GW,BW,BR,RR	635	620	8.0	6000	12000
	HDA-23016DR	HDC-23016DR	super red	GW,BW,BR,RR	660	645	6.8	9000	18000
	HDA-23016AR	HDC-23016AR	super red	GW,BW,BR,RR	660	645	8.0	12500	25000

1 Digit Numeric Displays

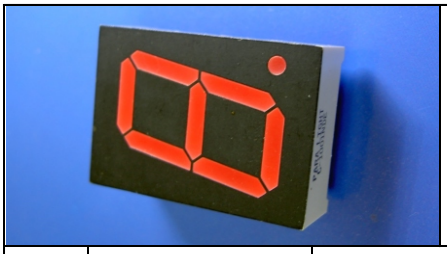
3.0″ ~ 5.0″ **IF=20mA/segment Ta=25℃**

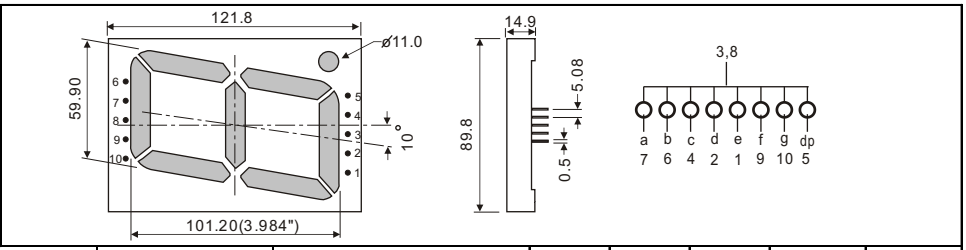
Front View	Device No		Color		Wavelength (nm)		VF Typical (V)	Brightness (ucd)	
	Common Anode	Common Cathode	Emitter	Surface, Segment	λp	λd		Minimum	Typical
3.0″ 10pin	HDA-30013	HDC-30013	yellow green	GW,BW,GGn,BGn	568	564	12.6	7000	14000
	HDA-30014	HDC-30014	yellow	GW,BW,GY,BY	585	583	12.0	6000	12000
	HDA-30015	HDC-30015	hi-eff red	GW,BW,BR,RR	635	620	11.5	7000	14000
	HDA-30016DR	HDC-30016DR	super red	GW,BW,BR,RR	660	645	10.2	7500	15000
	HDA-30016AR	HDC-30016AR	super red	GW,BW,BR,RR	660	645	12.0	12500	25000



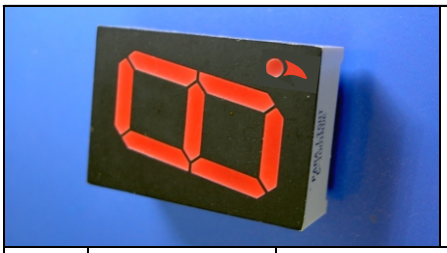


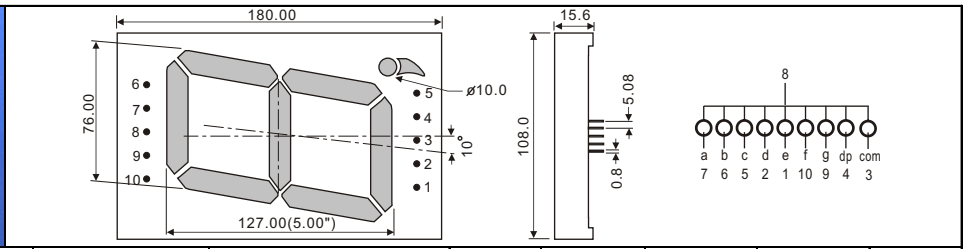
4.0″ 10pin	HDA-40012-A	HDC-40012-A	Hi-red	GW,BW,GGn,BGn	700	568	11.0	4500	9000
	HDA-40013-A	HDC-40013-A	yellow green	GW,BW,GGn,BGn	568	564	11.0	6500	13000
	HDA-40014-A	HDC-40014-A	yellow	GW,BW,GY,BY	585	583	11.0	5000	10000
	HDA-40015-A	HDC-40015-A	hi-eff red	GW,BW,BR,RR	635	620	11.0	6500	13000
	HDA-40016DR-A	HDC-40016DR-A	super red	GW,BW,BR,RR	660	645	8.5	10000	20000
	HDA-40016AR-A	HDC-40016AR-A	super red	GW,BW,BR,RR	660	645	10.0	12500	25000





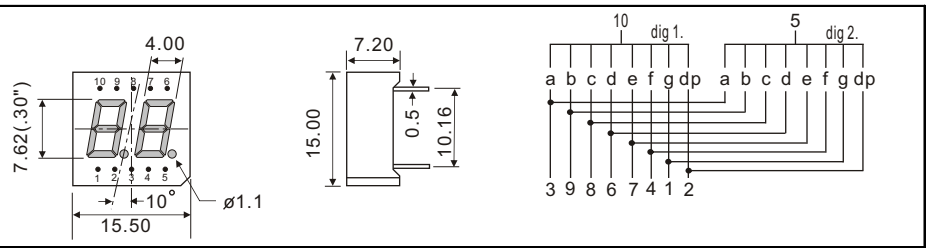
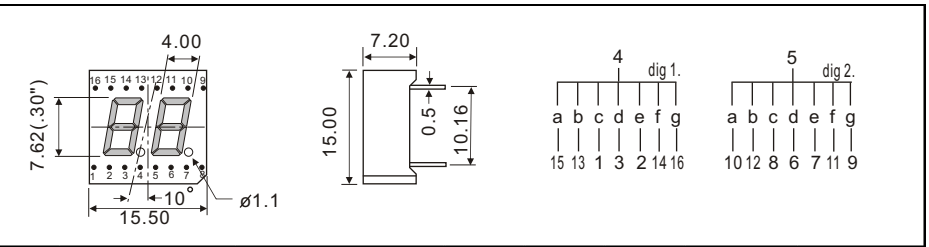
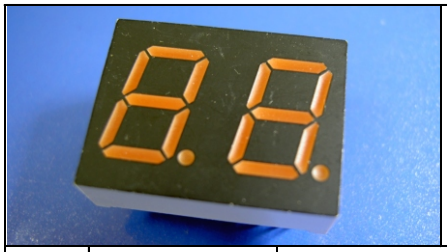
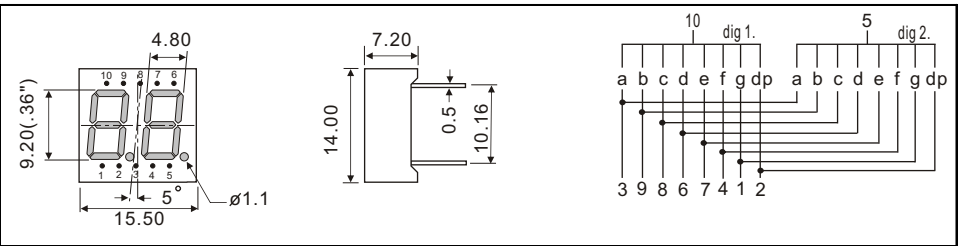
5.0″ 10pin	HDA-50012	HDC-50012	Hi-red	GW,BW,GGn,BGn	700	568	21.0	9000	18000
	HDA-50013	HDC-50013	yellow green	GW,BW,GGn,BGn	568	564	21.0	12500	25000
	HDA-50014	HDC-50014	yellow	GW,BW,GY,BY	585	583	20.0	10000	20000
	HDA-50015	HDC-50015	hi-eff red	GW,BW,BR,RR	635	620	19.0	11000	22000
	HDA-50016DR	HDC-50016DR	super red	GW,BW,BR,RR	660	645	17.0	15000	30000





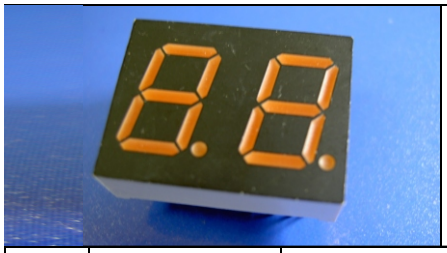
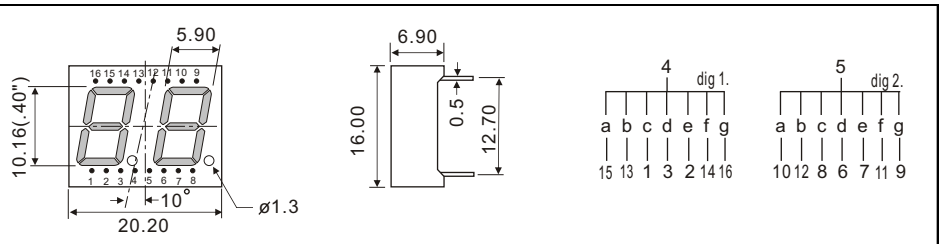
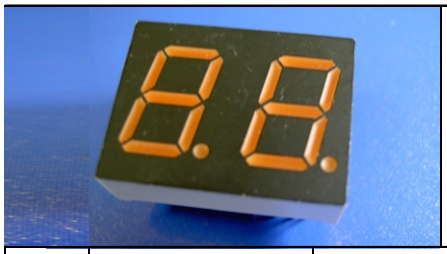
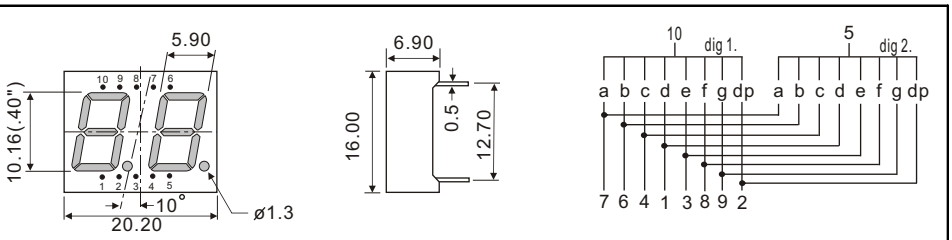
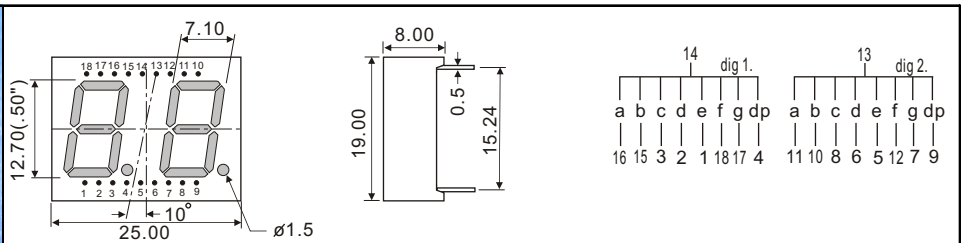
2 Digit Numeric Displays

0.3″ ~ 0.36″ **IF=20mA/segment Ta=25℃**

Front View	Device No		Color		Wavelength (nm)		VF	Brightness (ucd)	
	Common Anode	Common Cathode	Emitter	Surface, Segment	λp	λd	Typical (V)	Minimum	Typical
									
0.30″ 10pin	HDA-3022	HDC-3022	hi-red	GW,BW,BR,RR	700	658	2.1	600	1200
	HDA-3023	HDC-3023	yellow green	GW,BW,GGn,BGn	568	564	2.1	1500	3000
	HDA-3024	HDC-3024	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-3025	HDC-3025	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-3026DR	HDC-3026DR	super red	GW,BW,BR,RR	660	645	1.8	3000	6000
	HDA-3026CR	HDC-3026CR	super red	GW,BW,BR,RR	660	645	1.8	3500	7000
									
0.30″ 16pin	HDA-3022-16	HDC-3022-16	hi-red	GW,BW,BR,RR	700	658	2.1	600	1200
	HDA-3023-16	HDC-3023-16	yellow green	GW,BW,GGn	568	564	2.1	1500	3000
	HDA-3024-16	HDC-3024-16	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-3025-16	HDC-3025-16	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-3026DR-16	HDC-3026DR-16	super red	GW,BW,BR,RR	660	645	1.8	3000	6000
	HDA-3026CR-16	HDC-3026CR-16	super red	GW,BW,BR,RR	660	645	1.8	3500	7000
									
0.36″ 10pin	HDA-3622	HDC-3622	hi-red	GW,BW,BR,RR	700	658	2.1	600	1200
	HDA-3623	HDC-3623	yellow green	GW,BW,GGn,BGn	568	564	2.1	1500	3000
	HDA-3624	HDC-3624	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-3625	HDC-3625	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-3626DR	HDC-3626DR	super red	GW,BW,BR,RR	660	645	1.8	3000	6000
	HDA-3626CR	HDC-3626CR	super red	GW,BW,BR,RR	660	645	1.8	3500	7000

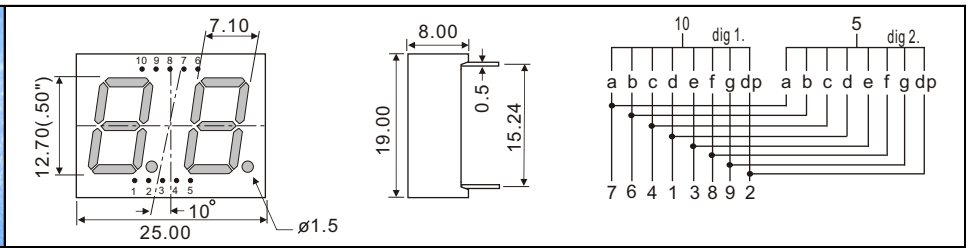
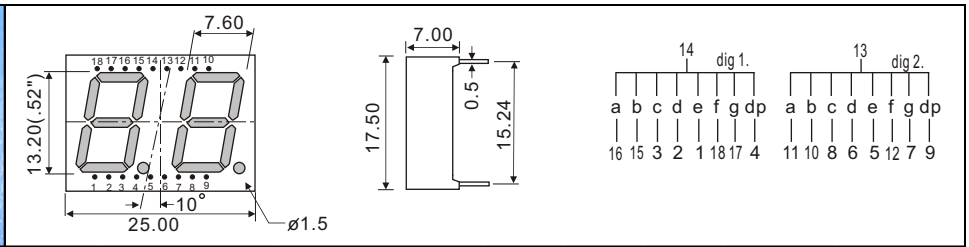
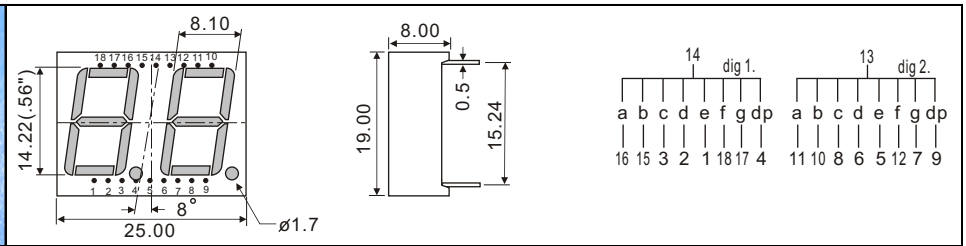
2 Digit Numeric Displays

0.40″ ~ 0.50″ **IF=20mA/segment Ta=25℃**

Front View	Device No		Color		Wavelength (nm)		VF Typical (V)	Brightness (ucd)	
	Common Anode	Common Cathode	Emitter	Surface, Segment	λp	λd		Minimum	Typical
									
0.40″ 16pin	HDA-4022	HDC-4022	hi-red	GW,BW,BR,RR	700	658	2.1	750	1500
	HDA-4023	HDC-4023	yellow green	GW,BW,GGn	568	564	2.1	1750	3500
	HDA-4024	HDC-4024	yellow	GW,BW,GY,BY	585	583	2.1	1250	2500
	HDA-4025	HDC-4025	hi-eff red	GW,BW,BR,RR	635	620	2.0	1750	3500
	HDA-4026DR	HDC-4026DR	super red	GW,BW,BR,RR	660	645	1.8	3250	6500
	HDA-4026CR	HDC-4026CR	super red	GW,BW,BR,RR	660	645	1.8	3750	7500
									
0.40″ 10pin	HDA-4022-10	HDC-4022-10	hi-red	GW,BW,BR,RR	700	658	2.1	750	1500
	HDA-4023-10	HDC-4023-10	yellow green	GW,BW,GGn,BGn	568	564	2.1	1750	3500
	HDA-4024-10	HDC-4024-10	yellow	GW,BW,GY,BY	585	583	2.1	1250	2500
	HDA-4025-10	HDC-4025-10	hi-eff red	GW,BW,BR,RR	635	620	2.0	1750	3500
	HDA-4026DR-10	HDC-4026DR-10	super red	GW,BW,BR,RR	660	645	1.8	3250	6500
	HDA-4026CR-10	HDC-4026CR-10	super red	GW,BW,BR,RR	660	645	1.8	3750	7500
									
0.50″ 18pin	HDA-5022	HDC-5022	hi-red	GW,BW,BR,RR	700	658	2.1	750	1500
	HDA-5023	HDC-5023	yellow green	GW,BW,GGn	568	564	2.1	1750	3500
	HDA-5024	HDC-5024	yellow	GW,BW,GY,BY	585	583	2.1	1250	2500
	HDA-5025	HDC-5025	hi-eff red	GW,BW,BR,RR	635	620	2.0	1750	3500
	HDA-5026DR	HDC-5026DR	super red	GW,BW,BR,RR	660	645	1.8	3250	6500
	HDA-5026CR	HDC-5026CR	super red	GW,BW,BR,RR	660	645	1.8	3750	7500

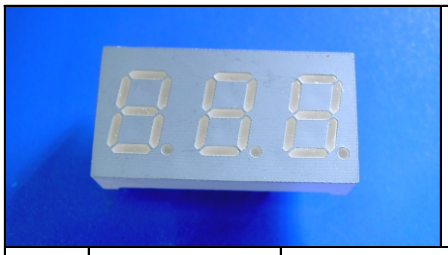
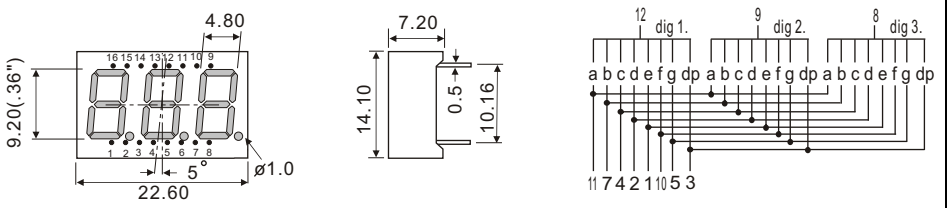
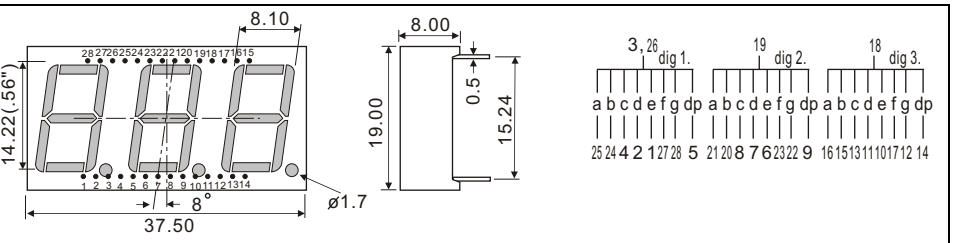
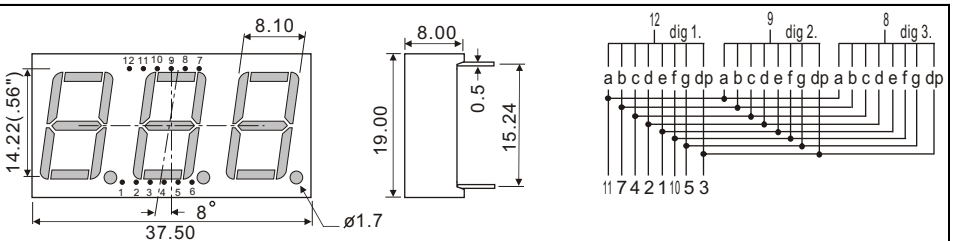
2 Digit Numeric Displays

0.50″ ~ 0.56″ **IF=20mA/segment Ta=25℃**

Front View	Device No		Color		Wavelength (nm)		VF	Brightness (ucd)	
	Common Anode	Common Cathode	Emitter	Surface, Segment	λp	λd	Typical (V)	Minimum	Typical
									
0.50″ 10pin	HDA-5022-10	HDC-5022-10	hi-red	GW,BW,BR,RR	700	658	2.1	800	1600
	HDA-5023-10	HDC-5023-10	yellow green	GW,BW,GGn	568	564	2.1	1900	3800
	HDA-5024-10	HDC-5024-10	yellow	GW,BW,GY,BY	585	583	2.1	1900	3800
	HDA-5025-10	HDC-5025-10	hi-eff red	GW,BW,BR,RR	635	620	2.0	1800	3600
	HDA-5026DR-10	HDC-5026DR-10	super red	GW,BW,BR,RR	660	645	1.8	3400	6800
	HDA-5026CR-10	HDC-5026CR-10	super red	GW,BW,BR,RR	660	645	1.8	3900	7800
									
0.52″ 18pin	HDA-5222	HDC-5222	hi-red	GW,BW,BR,RR	700	658	2.1	750	1500
	HDA-5223	HDC-5223	yellow green	GW,BW,GGn	568	564	2.1	1750	3500
	HDA-5224	HDC-5224	yellow	GW,BW,GY,BY	585	583	2.1	1250	2500
	HDA-5225	HDC-5225	hi-eff red	GW,BW,BR,RR	635	620	2.0	1750	3500
	HDA-5226DR	HDC-5226DR	super red	GW,BW,BR,RR	660	645	1.8	3250	6500
	HDA-5226CR	HDC-5226CR	super red	GW,BW,BR,RR	660	645	1.8	3750	7500
									
0.56″ 18pin	HDA-5622	HDC-5622	hi-red	GW,BW,BR,RR	700	658	2.1	750	1500
	HDA-5623	HDC-5623	yellow green	GW,BW,GGn	568	564	2.1	1750	3500
	HDA-5624	HDC-5624	yellow	GW,BW,GY,BY	585	583	2.1	1250	2500
	HDA-5625	HDC-5625	hi-eff red	GW,BW,BR,RR	635	620	2.0	1750	3500
	HDA-5626DR	HDC-5626DR	super red	GW,BW,BR,RR	660	645	1.8	3250	6500
	HDA-5626CR	HDC-5626CR	super red	GW,BW,BR,RR	660	645	1.8	3750	7500

3 Digit Numeric Displays

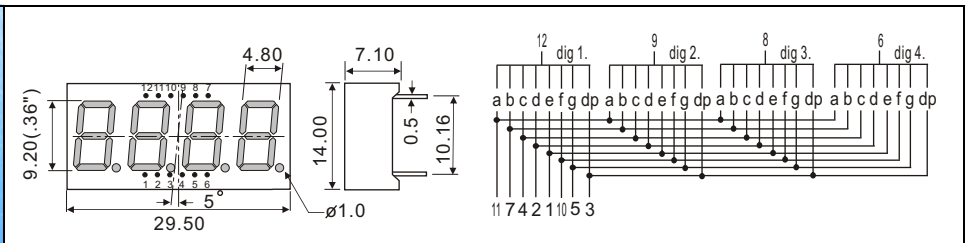
0.36″ ~ 0.56″ **IF=20mA/segment Ta=25℃**

Front View	Device No		Color		Wavelength (nm)		VF	Brightness (ucd)	
	Common Anode	Common Cathode	Emitter	Surface, Segment	λp	λd	Typical (V)	Minimum	Typical
0.36″ 16pin	 								
	HDA-3632	HDC-3632	hi-red	GW,BW,BR,RR	700	658	2.1	600	1200
	HDA-3633	HDC-3633	yellow green	GW,BW,GGn,BGn	568	564	2.1	1500	3000
	HDA-3634	HDC-3634	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-3635	HDC-3635	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-3636DR	HDC-3636DR	super red	GW,BW,BR,RR	660	645	1.8	3000	6000
	HDA-3636CR	HDC-3636CR	super red	GW,BW,BR,RR	660	645	1.8	3500	7000
0.56″ 28pin									
	HDA-5632	HDC-5632	hi-red	GW,BW,BR,RR	700	658	2.1	600	1200
	HDA-5633	HDC-5633	yellow green	GW,BW,GGn,BGn	568	564	2.1	1500	3000
	HDA-5634	HDC-5634	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-5635	HDC-5635	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-5636DR	HDC-5636DR	super red	GW,BW,BR,RR	660	645	1.8	3000	6000
	HDA-5636CR	HDC-5636CR	super red	GW,BW,BR,RR	660	645	1.8	3500	7000
0.56″ 12pin									
	HDA-5632-11	HDC-5632-11	hi-red	GW,BW,BR,RR	700	658	2.1	600	1200
	HDA-5633-11	HDC-5633-11	yellow green	GW,BW,GGn	568	564	2.1	1500	3000
	HDA-5634-11	HDC-5634-11	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
	HDA-5635-11	HDC-5635-11	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-5636DR-11	HDC-5636DR-11	super red	GW,BW,BR,RR	660	645	1.8	3000	6000
	HDA-5636CR-11	HDC-5636CR-11	super red	GW,BW,BR,RR	660	645	1.8	3500	7000

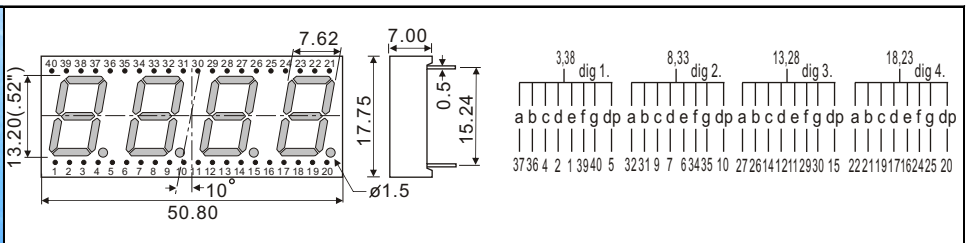
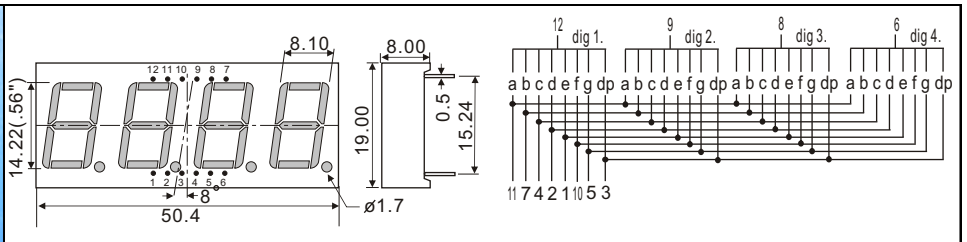
4 Digit Numeric Displays

0.36″ ~ 0.56″ **IF=20mA/segment Ta=25℃**

Front View	Device No		Color		Wavelength (nm)		VF Typical (V)	Brightness (ucd)	
	Common Anode	Common Cathode	Emitter	Surface, Segment	λp	λd		Minimum	Typical
	HDA-3642	HDC-3642	hi-red	GW,BW,BR,RR	700	658	2.1	600	1200
	HDA-3643	HDC-3643	yellow green	GW,BW,GGn,BGn	568	564	2.1	1500	3000
0.36″	HDA-3644	HDC-3644	yellow	GW,BW,GY,BY	585	583	2.1	1000	2000
12pin	HDA-3645	HDC-3645	hi-eff red	GW,BW,BR,RR	635	620	2.0	1500	3000
	HDA-3646DR	HDC-3646DR	super red	GW,BW,BR,RR	660	645	1.8	3500	7000
	HDA-3646CR	HDC-3646CR	super red	GW,BW,BR,RR	660	645	1.8	4000	8000



	HDA-5242	HDC-5242	hi-red	GW,BW,BR,RR	700	658	2.1	750	1500
	HDA-5243	HDC-5243	yellow green	GW,BW,GGn,BGn	568	564	2.1	1750	3500
0.52″	HDA-5244	HDC-5244	yellow	GW,BW,GY,BY	585	583	2.1	1250	2500
40pin	HDA-5245	HDC-5245	hi-eff red	GW,BW,BR,RR	635	620	2.0	1750	3500
	HDA-5246DR	HDC-5246DR	super red	GW,BW,BR,RR	660	645	1.8	3250	6500
	HDA-5246CR	HDC-5246CR	super red	GW,BW,BR,RR	660	645	1.8	3750	7500



	HDA-5642	HDC-5642	hi-red	GW,BW,BR,RR	700	658	2.1	750	1500
	HDA-5643	HDC-5643	yellow green	GW,BW,GGn,BGn	568	564	2.1	1750	3500
0.56″	HDA-5644	HDC-5644	yellow	GW,BW,GY,BY	585	583	2.1	1250	2500
12pin	HDA-5645	HDC-5645	hi-eff red	GW,BW,BR,RR	635	620	2.0	1750	3500
	HDA-5646DR	HDC-5646DR	super red	GW,BW,BR,RR	660	645	1.8	3250	6500
	HDA-5646CR	HDC-5646CR	super red	GW,BW,BR,RR	660	645	1.8	3750	7500