


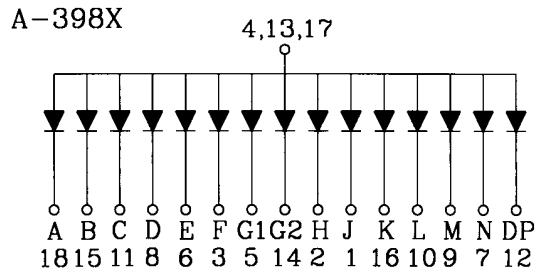
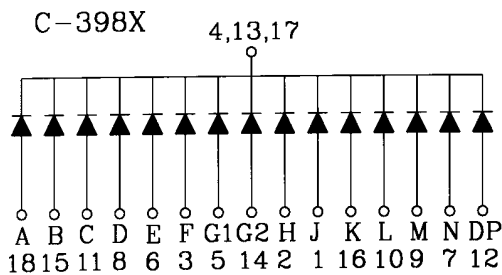
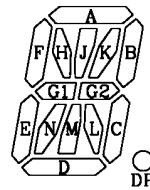
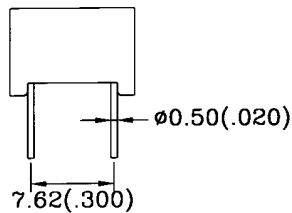
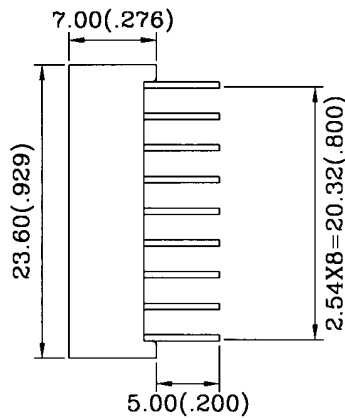
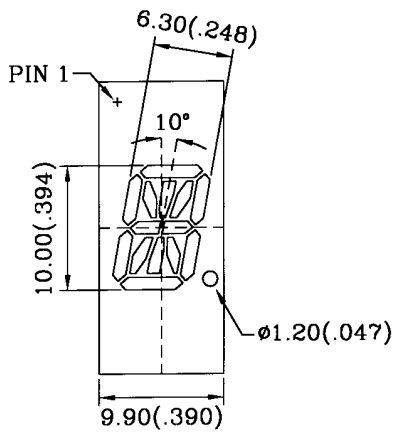
Shape	Part No.		Chip		Wave Length $\lambda_p$ (nm)	Electro-Optical Characteristics			Fig.No.
	Common Cathode	Common Anode	Raw Material	Emitted Color		Vf(V)20mA		Iv(ucd)10mA	
						Typ.	Max.	Typ.	
	C-398H	A-398H	GaP	Red	700	2.3	2.8	550	D55
	C-398E	A-398E	GaAsP/GaP	Hi.effi Red	635	2.1	2.8	1800	
	C-398G	A-398G	GaP	Green	565	2.1	2.8	1600	
	C-398Y	A-398Y	GaAsP/GaP	Yellow	585	2.1	2.8	1500	
	C-398SR	A-398SR	GaAlAs	Super Red	660	1.8	2.2	10000	

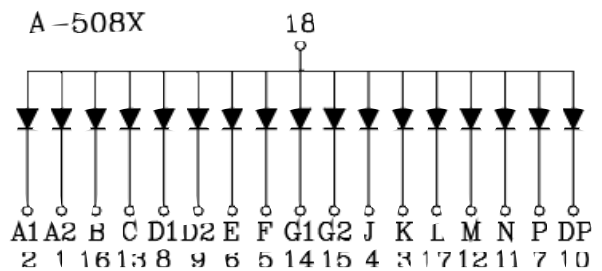
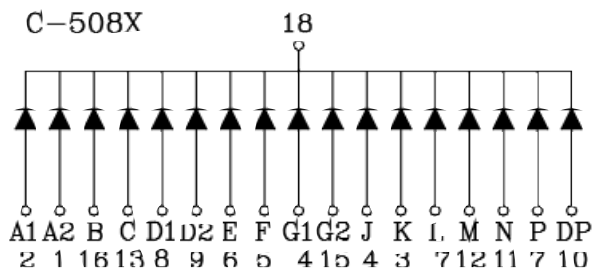
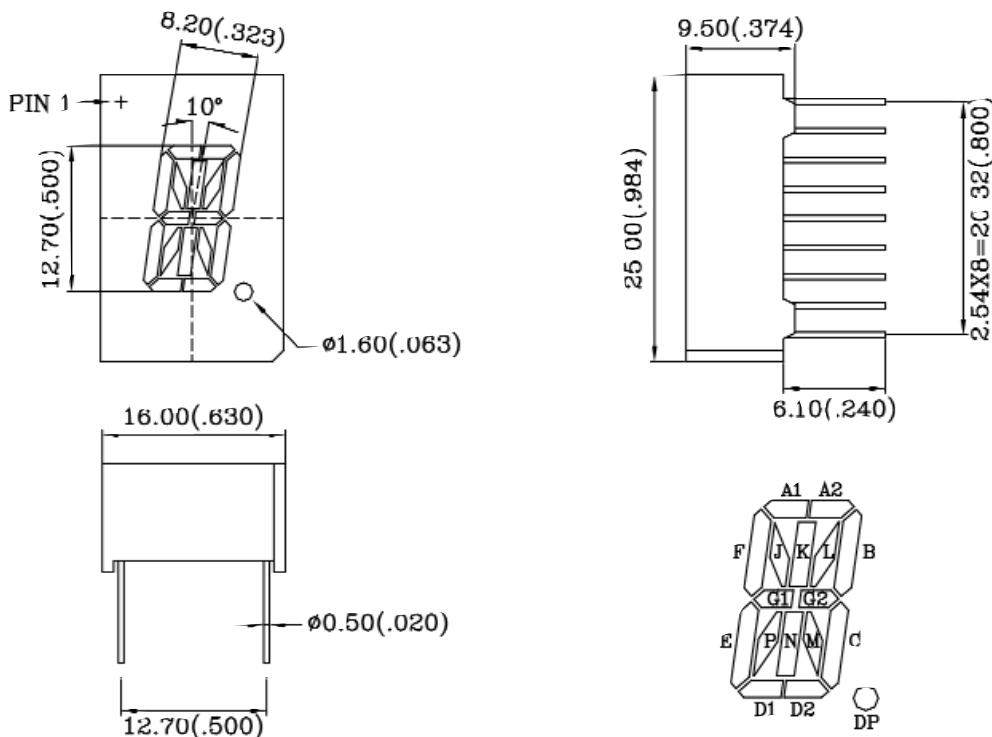
Fig. D55



- 1.All dimension are in millimeters (inches).
- 2.Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise specified.

Shape	Part No.		Chip		Wave Length $\lambda_p$ (nm)	Electro-Optical Characteristics			Fig.No.
	Common Cathode	Common Anode	Raw Material	Emitted Color		Vf(V)20mA		Iv(ucd)10mA	
						Typ.	Max.	Typ.	
	C-508H	A-508H	GaP	Red	700	2.3	2.8	650	D56
	C-508E	A-508E	GaAsP/GaP	Hi.effi Red	635	2.1	2.8	2000	
	C-508G	A-508G	GaP	Green	565	2.1	2.8	2000	
	C-508Y	A-508Y	GaAsP/GaP	Yellow	585	2.1	2.8	1600	
	C-508SR	A-508SR	GaAlAs	Super Red	660	1.8	2.2	10000	

Fig. D56



- 1.All dimension are in millimeters (inches).
- 2.Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise specified.


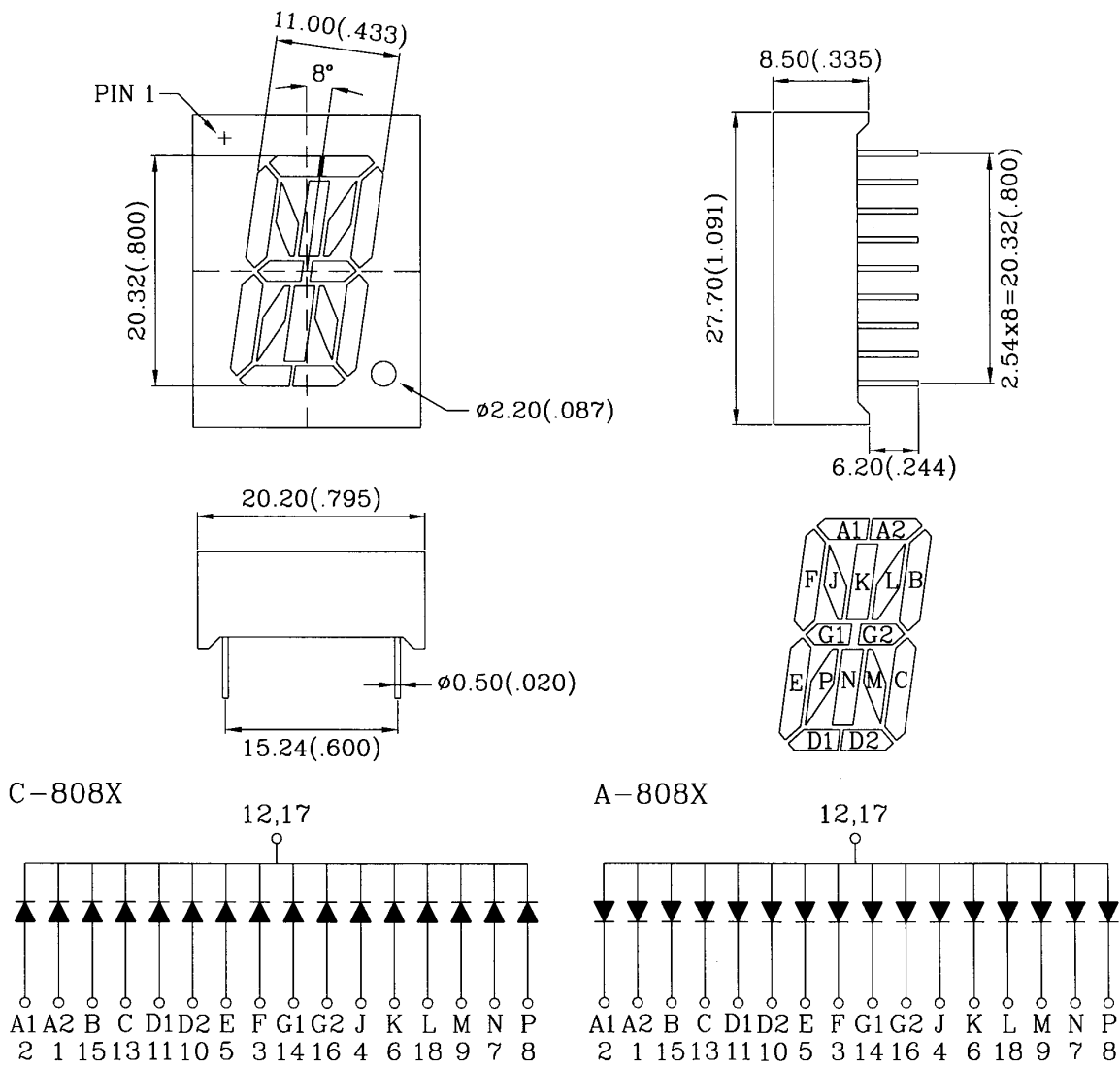
Shape	Part No.		Chip		Wave Length $\lambda$ p(nm)	Electro-Optical Characteristics			Fig.No.
	Common Cathode	Common Anode	Raw Material	Emitted Color		Vf(V)20mA		Iv(ucd)10mA	
						Typ.	Max.	Typ.	
	C-808H	A-808H	GaP	Red	700	2.3	2.8	650	D57
	C-808E	A-808E	GaAsP/GaP	Hi.effi Red	635	2.1	2.8	2000	
	C-808G	A-808G	GaP	Green	565	2.1	2.8	2000	
	C-808Y	A-808Y	GaAsP/GaP	Yellow	585	2.1	2.8	1600	
	C-808SR	A-808SR	GaAlAs	Super Red	660	1.8	2.2	10000	

Fig. D57



1.All dimension are in millimeters (inches).  
2.Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise specified.


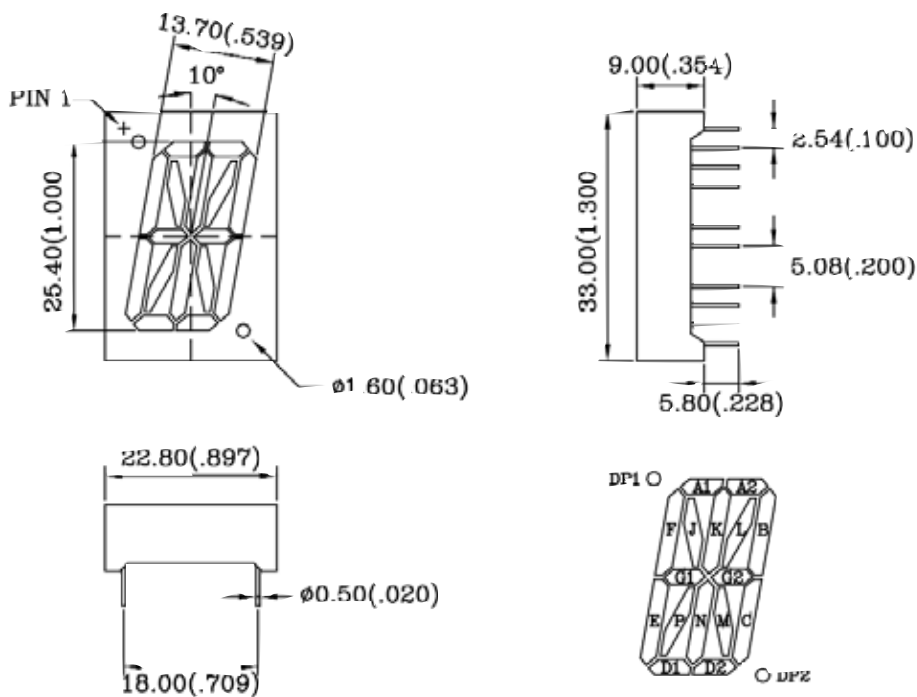
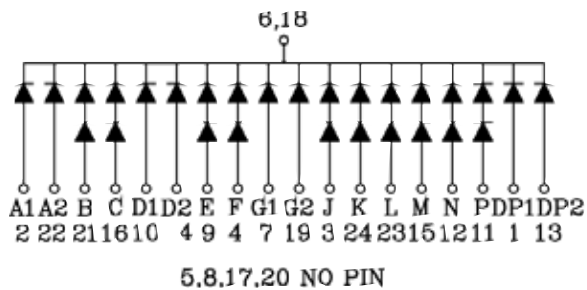
Shape	Part No.		Chip		Wave Length $\lambda$ p(nm)	Electro-Optical Characteristics			Fig.No.
	Common Cathode	Common Anode	Raw Material	Emitted Color		Vf(V)20mA		Iv(ucd)10mA	
						Typ.	Max.	Typ.	
	C-1008E	A-1008E	GaAsP/GaP	Hi.effi Red	635	4.2	5.6	4000	D58
	C-1008G	A-1008G	GaP	Green	565	4.4	5.6	4000	
	C-1008Y	A-1008Y	GaAsP/GaP	Yellow	585	4.2	5.6	3200	
	C-1008SR	A-1008SR	GaAlAs	Super Red	660	3.6	4.4	20000	

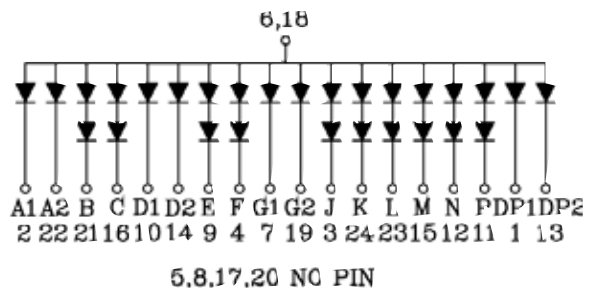
Fig. D58



C-1008X



A-1008X



- 1.All dimension are in millimeters (inches).
- 2.Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise specified.

**C/A-1518X ALPHA-NUMERIC DISPLAY**


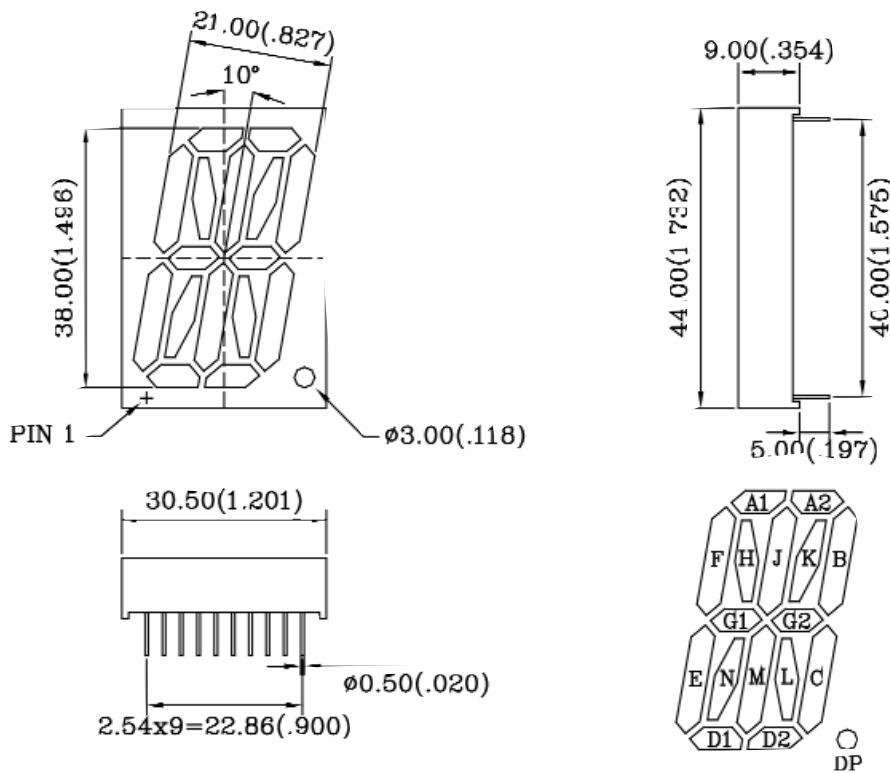
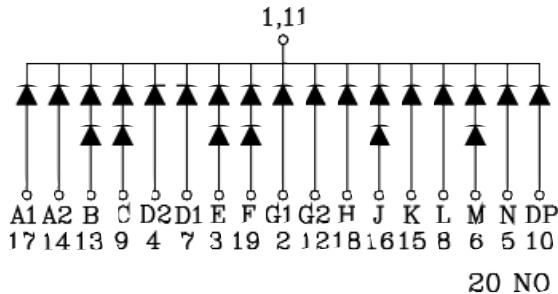
Shape	Part No.		Chip		Wave Length $\lambda_p$ (nm)	Electro-Optical Characteristics			Fig.No.
	Common Cathode	Common Anode	Raw Material	Emitted Color		Vf(V)20mA		Iv(ucd)10mA	
						Typ.	Max.	Typ.	
	C-1518E	A-1518E	GaAsP/GaP	Hi.effi Red	635	4.2	5.6	5000	D59
	C-1518G	A-1518G	GaP	Green	565	4.4	5.6	5000	
	C-1518Y	A-1518Y	GaAsP/GaP	Yellow	585	4.2	5.6	4200	
	C-1518SR	A-1518SR	GaAlAs	Super Red	660	3.6	4.4	20000	

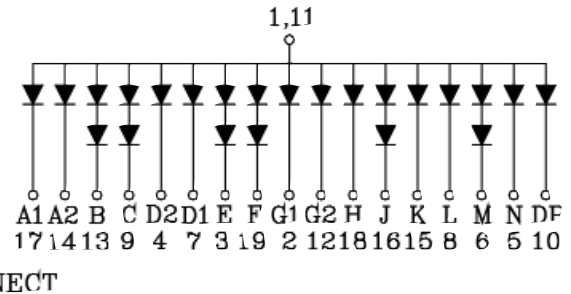
Fig. D59



C-1518X



A 1518X



20 NO CONNECT

1.All dimension are in millimeters (inches).  
2.Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise specified.

**C/A-2308X ALPHA-NUMERIC DISPLAY**


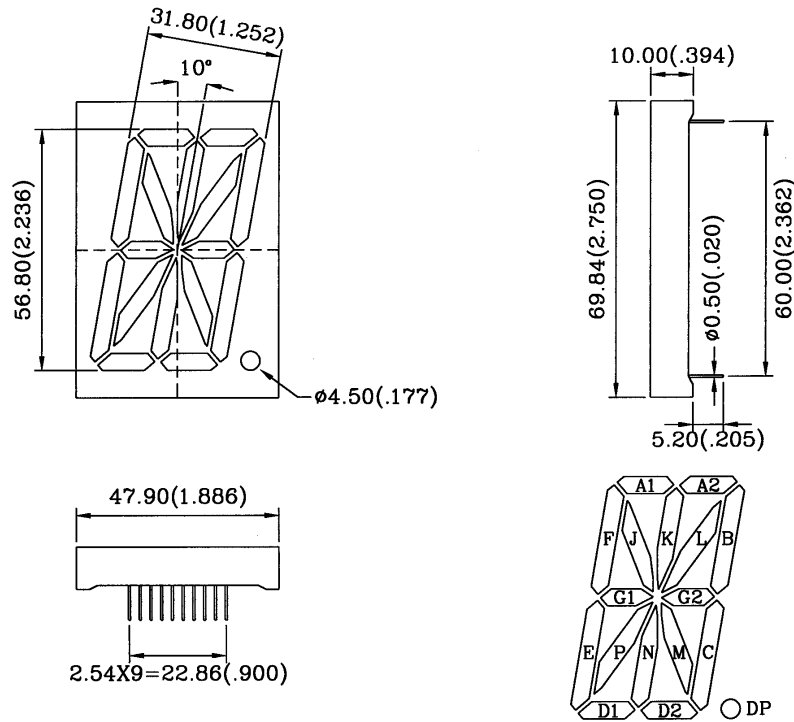
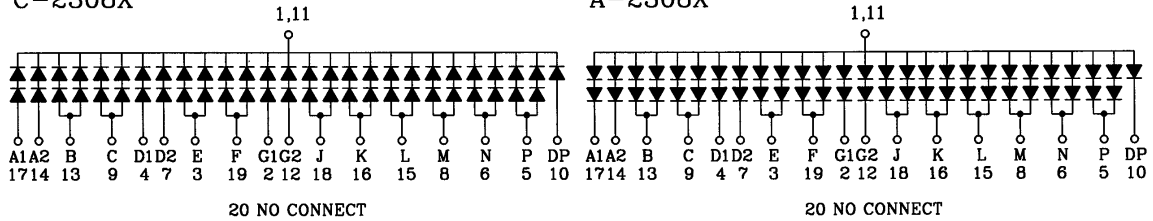
Shape	Part No.		Chip		Wave Length $\lambda_p$ (nm)	Electro-Optical Characteristics			Fig.No.
	Common Cathode	Common Anode	Raw Material	Emitted Color		Vf(V)20mA		Iv(ucd)10mA	
						Typ.	Max.	Typ.	
	C-2308E	A-2308E	GaAsP/GaP	Hi.effi Red	635	4.0	5.6	6000	D60
	C-2308G	A-2308G	GaP	Green	565	4.2	5.6	5400	
	C-2308Y	A-2308Y	GaAsP/GaP	Yellow	585	4.2	5.6	5400	
	C-2308SR	A-2308SR	GaAlAs	Super Red	660	3.6	4.8	20000	

Fig. D60



C-2308X

A-2308X



- 1.All dimension are in millimeters (inches).
- 2.Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise specified.


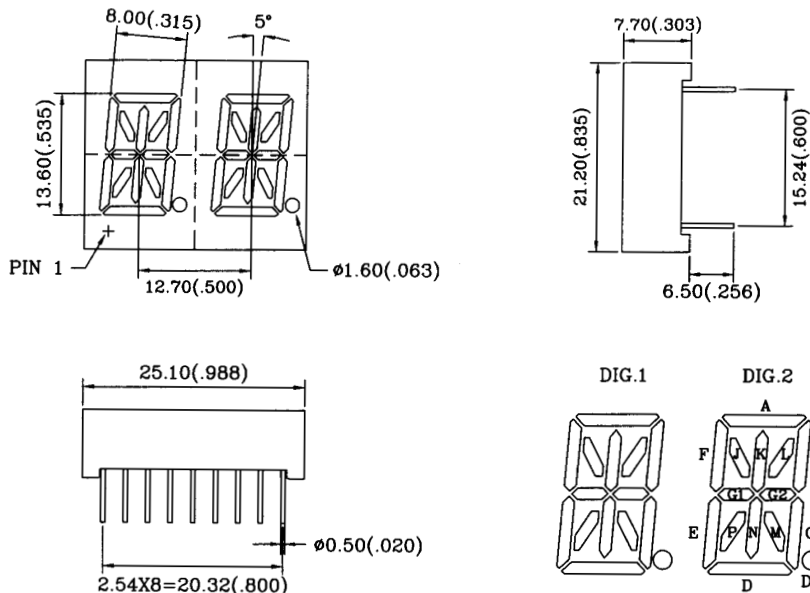
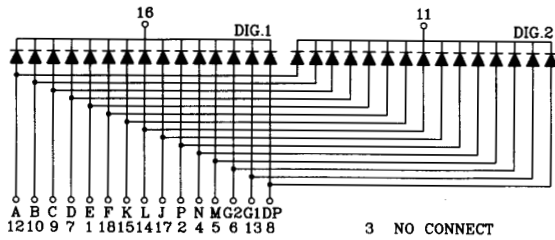
Shape	Part No.		Chip		Wave Length $\lambda$ p(nm)	Electro-Optical Characteristics			Fig.No.
	Common Cathode	Common Anode	Raw Material	Emitted Color		Vf(V)20mA		Iv(ucd)10mA	
						Typ.	Max.	Typ.	
	C-542H	A-542H	GaP	Red	700	2.3	2.8	700	D61
	C-542E	A-542E	GaAsP/GaP	Hi.effi Red	635	2.1	2.8	2000	
	C-542G	A-542G	GaP	Green	565	2.1	2.8	2000	
	C-542Y	A-542Y	GaAsP/GaP	Yellow	585	2.1	2.8	1600	
	C-542SR	A-542SR	GaAlAs	Super Red	660	1.8	2.2	10000	

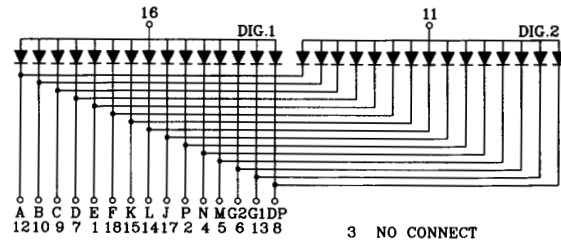
Fig. D61



C-542X



A-542X



- 1.All dimension are in millimeters (inches).
- 2.Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise specified.