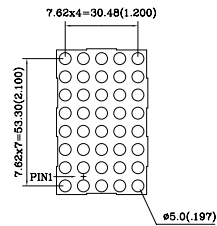




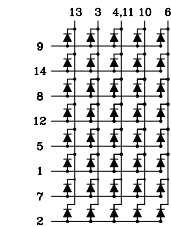
Single Color 5x8 Dot Matrix Display

Digit Size	Part No.		Chip		Wave Length λ_p (nm)	Absolute Maximun Ratings				Electro-Optical Characteristics			Figure No.	
	Common Cathode	Common Anode	Raw Material	Emitted Color		$\Delta\lambda$ nm	Pd nW	If mA	If Peak	Vf(V)		Iv (μ cd)		
										Typ.	Max.	Typ.		Max.
2.3" High $\phi 5.0$	MC-23580H	MA-23580H	Gap	Bright Red	700	90	45	15	50	2.1	2.8	1000	MD-09	
	MC-23580E	MA-23580E	GaAsP/Gap	Hi.effi Red	635	45	100	30	160	2.0	2.8	3600		
	MC-23580G	MA-23580G	Gap	Green	565	30	100	30	160	2.1	2.8	3400		
	MC-23580Y	MA-23580Y	GaAsP/Gap	Yellow	585	30	100	30	160	2.1	2.8	3400		
	MC-23580SR	MA-23580SR	GaAlAs	Super Red	660	20	60	20	160	1.8	2.4	10000		

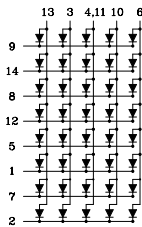
MD-09



MC-23580X



MA-23580X

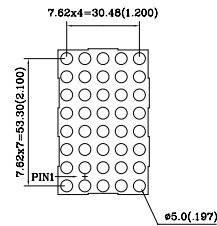


NOTES: 1.All Dimensions are in millimeters (inches).
2.Tolerance is $\pm 0.25\text{mm}(.010")$ unless otherwise specified.

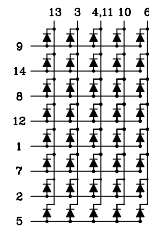
Single Color 5x8 Dot Matrix Display

Digit Size	Part No.		Chip			Wave Length	Absolute Maximum Ratings				Electro-Optical Characteristics			Figure No.
	Common Cathode	Common Anode	Raw Material	Emitted Color	λ_p (nm)	$\Delta\lambda$ nm	Pd nW	If μ A	If Peak	Vf (V)		Iv (μ cd)		
										Typ.	Max.		Typ.	
2.3" High $\phi 5.0$	MC-23581H	MA-23581H	Gap	Bright Red	700	90	45	15	50	2.1	2.8	1000	MD-10	
	MC-23581E	MA-23581E	GaAsP/Gap	Hi.effi Red	635	45	100	30	160	2.0	2.8	3600		
	MC-23581G	MA-23581G	Gap	Green	565	30	100	30	160	2.1	2.8	3400		
	MC-23581Y	MA-23581Y	GaAsP/Gap	Yellow	585	30	100	30	160	2.1	2.8	3400		
	MC-23581SR	MA-23581SR	GaAlAs	Super Red	660	20	60	20	160	1.8	2.4	10000		

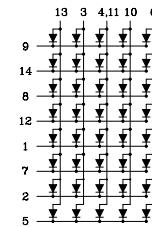
MD-10



MC-23581X



MA-23581X

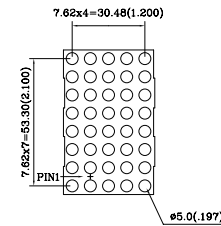


NOTES: 1.All Dimensions are in millimeters (inches).
2.Tolerance is $\pm 0.25\text{mm}(.010")$ unless otherwise specified.

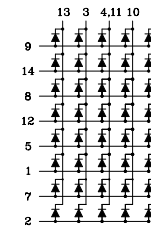
Single Color 5x8 Dot Matrix Display

Digit Size	Part No.		Chip		Wave Length λ_p (nm)	Absolute Maximum Ratings				Electro-Optical Characteristics			Figure No.
	Common Cathode	Common Anode	Raw Material	Emitted Color		$\Delta\lambda$ nm	Pd nW	If Peak	Vf (V)		Iv (μ cd)		
									Typ.	Max.		Typ.	
2.3" High $\phi 5.0$	MC-23582H	MA-23582H	Gap	Bright Red	700	90	45	15	50	2.1	2.8	1000	MD-11
	MC-23582E	MA-23582E	GaAsP/Gap	Hi.effi Red	635	45	100	30	160	2.0	2.8	3600	
	MC-23582G	MA-23582G	Gap	Green	565	30	100	30	160	2.1	2.8	3400	
	MC-23582Y	MA-23582Y	GaAsP/Gap	Yellow	585	30	100	30	160	2.1	2.8	3400	
	MC-23582SR	MA-23582SR	GaAlAs	Super Red	660	20	60	20	160	1.8	2.4	10000	

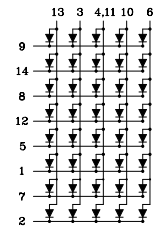
MD-11



MC-23582X



MA-23582X



NOTES: 1.All Dimensions are in millimeters (inches).
2.Tolerance is $\pm 0.25\text{mm}(.010")$ unless otherwise specified.