







The tolerance unless classified ± 0.3mm

MECHANICAL SPECIFICATION									
Overall Size	85.0 x 32.6	Module	H2 / H1						
View Area	61.0 x 15.8	W /O B/L	5.1 / 9.7						
Dot Size	0.56 x 0.66	EL B/L	5.1 / 9.7						
Dot Pitch	0.60 x 0.70	LED B/L	9.4 / 14.0						

PIN ASSIGNMENT					
Pin no.	Symbol	Function			
1	Vss	Power supply(GND)			
2	Vdd	Power supply(+)			
3	Vo	Contrast Adjust			
4	RS	Register select signal			
5	R/W	Data read / write			
6	E	Enable signal			
7	DB0	Data bus line			
8	DB1	Data bus line			
9	DB2	Data bus line			
10	DB3	Data bus line			
11	DB4	Data bus line			
12	DB5	Data bus line			
13	DB6	Data bus line			
14	DB7	Data bus line			

Symbol		Condition		Min.			Max.		Units		
Vdd-Vss		25°C		-0.3			7		V		
Vdd-Vee		25°C		-0.3			13		V		
Vin		25°0	5°C -		0.3		Vdd+0.3		<b>&gt;</b>		
ELECTRICAL CHARACTERISTICS											
Symbol Co		ndition	M	lin.	Typical		N	lax.	Units		
Vdd-Vss		25°C	2.	.7	- 0		4.5		V		
Vop		Тор	N	W	N	W	N	W	V		
	-	20°C		7.1		7.5	_	7.9	V		
		0°C	4.5	.0	5.1	-	5.3	-	V		
		25°C	4.1	6.1	4.7	6.4	4.9	6.7	V		
		50°C	3.8	_	4.5	-	4.6	_	V		
		70°C	-	5.7	ı	6	_	6.3	V		
ldd	٧	dd=5V	-	_	2		3		mA		
LED/edge VB		/L=4.2V	_		40		_		mA		
LED/array	VB/L=4.2		_		120		_		mA		
	Vdd-Vs Vdd-Vs Vin CTRICAI Symbol Vdd-Vss Vop	Vdd-Vss Vdd-Vee Vin CTRICAL (CSymbol CoVdd-Vss Vop Idd V LED/edge VB	Vdd-Vss         25°C           Vdd-Vee         25°C           Vin         25°C           CTRICAL CHARA           Symbol Condition           Vdd-Vss         25°C           Top           -20°C           0°C           25°C           50°C           70°C	Vdd-Vss         25°C           Vdd-Vee         25°C           Vin         25°C           CTRICAL CHARACT           Symbol Condition         M           Vdd-Vss         25°C         2           Top         N           -20°C         -           0°C         4.5           25°C         4.1           50°C         3.8           70°C         -           Idd         Vdd=5V           LED/edge         VB/L=4.2V	Vdd-Vss         25°C         -0           Vdd-Vee         25°C         -0           Vin         25°C         -0           CTRICAL CHARACTER         Symbol Condition Min.           Vdd-Vss         25°C         2.7           Top N W-20°C         - 7.1           0°C         4.5           25°C         4.1           50°C         3.8           70°C         - 5.7           Idd         Vdd=5V           LED/edge         VB/L=4.2V	Vdd-Vss         25°C         -0.3           Vdd-Vee         25°C         -0.3           Vin         25°C         -0.3           CTRICAL CHARACTERIST         Symbol         Condition         Min.         Typ           Vdd-Vss         25°C         2.7         -           Top         N         W         N           -20°C         -         7.1         -           25°C         4.1         6.1         4.7           50°C         3.8         -         4.5           70°C         -         5.7         -           Idd         Vdd=5V         -         4           LED/edge         VB/L=4.2V         -         4	Vdd-Vss         25°C         -0.3           Vdd-Vee         25°C         -0.3           Vin         25°C         -0.3           Vin         25°C         -0.3           Symbol         Condition         Min.         Typical           Vdd-Vss         25°C         2.7         -           Top         N         W         N         W           -20°C         -         7.1         -         7.5           0°C         4.5         -         5.1         -           25°C         4,1         6.4         4.7         6.4           50°C         3.8         -         4.5         -           70°C         -         5.7         -         6           Idd         Vdd=5V         -         2         -           LED/edge         VB/L=4.2V         -         40	Vdd-Vss         25°C         -0.3         7           Vdd-Vee         25°C         -0.3         13           Vin         25°C         -0.3         Vdd+           CTRICAL CHARACTERISTICS           Symbol         Condition         Min.         Typical         M           Vdd-Vss         25°C         2.7         -         4.           Top         N         W         N         W         N           -20°C         -         7.1         -         5.3         -           25°C         4.4         6.4         4.7         6.4         4.9           50°C         3.8         -         4.5         -         4.6           70°C         -         5.7         -         6         -           Idd         Vdd=5V         -         2         3           LED/edge         VB/L=4.2V         -         40         -         -	Vdd-Vss         25°C         -0.3         7           Vdd-Vee         25°C         -0.3         13           Vin         25°C         -0.3         Vdd+0.3           CTRICAL CHARACTERISTICS           Symbol Condition Min. Typical Max.           Vdd-Vss         25°C         2.7         -         4.5           Top N W N W N W N W N W         N W         N W         N W         N W           -20°C         -         7.1         -         7.5         -         7.9           0°C         4.5         -         5.1         -         5.3         -           25°C         4.1         6.1         4.7         6.4         4.9         6.7           50°C         3.8         -         4.5         -         4.6         -           70°C         -         5.7         -         6         -         6.3           Idd         Vdd=5V         -         2         3           LED/edge         VB/L=4.2V         -         40         -		

ABSOLUTE MAXIMUM RATING