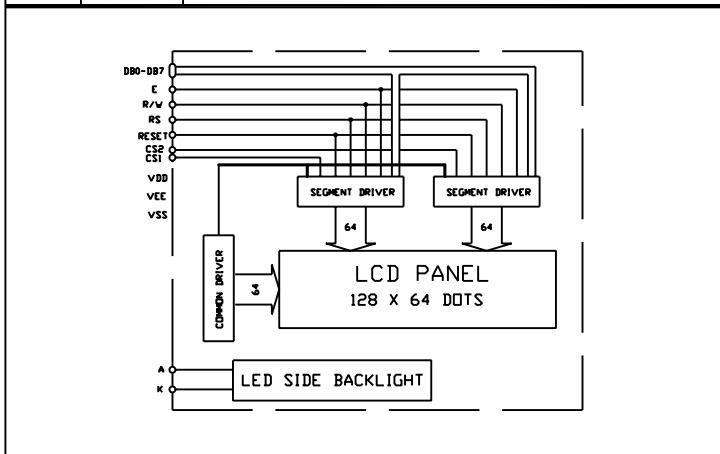


PIN Connections		
PIN	SYMBOL	SIGNAL DESCRIPTION
1	VDD	Power Supply for Logic
2	VSS	GND(0V)
3	V0	Operating Voltage for LCD
4-11	DB0-DB7	Data Bus
12	CS1	Select Left, L Action
13	CS2	Select Light, L Action
14	/RST	Reset Signal
15	R/W	H:MPU<-Module L:MPU->Module
16	D/I	H:Data L:Instruction
17	E	Enable Signal
18	VEE	Negative Voltage Supply
19	A	Supply Voltage for BackLight (+)
20	K	Supply Voltage for BackLight(-)

Absolute Maximum Ratings					
Parameter	Symbol	Min.	Max.	Unit	
Supply Voltage	Vdd	-0.3	7.0	V	
LCD Supply Voltage	Vee	Vdd-13.8	0	V	
Input Voltage	Vr	-0.3	Vdd+0.3	V	
Operating Temperature	Top	0	50	°C	
Storage Temperature	Tstg	-20	70	°C	

Bottom BackLight Characters (Ta=25 ° C)						
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Supply Voltage	VLED	—	—	5.0	—	V
LED Forward Consumption Current	If	Ta=25° C Vf=5 V	—	165	—	mA
LED Allowable Dissipation	Pd	—	—	1000	—	mW



Electrical Characteristics (Ta=25 ° C)						
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Supply Voltage (Logic)	Vdd-Vss	—	4.5	5.0	5.5	V
Supply Current (Logic)	Idd	VDD=5.0V	—	1.47	—	mA
Driving Current (LCD)	Iee	Vee=4.2V	—	1.46	—	mA
Driving Voltage (LCD)	Vdd-Vee	—	—	12.6	—	V
Input Voltage "H"	Vih	H	0.8Vdd	—	VDD	V
Input Voltage "L"	Vil	L	Vss	—	0.8	V
Output Voltage "H"	Vol	H	2.4	—	—	V
Output Voltage "L"	Voh	L	—	—	0.4	V