



Transflective Background

PIN Connections

PIN	SYMBOL	SIGNAL DESCRIPTION
1	VSS	GND(0V)
2	VDD	Power Supply for Logic
3	V0	Operating Voltage for LCD
4	D/I	H:Data L:Instruction
5	R/W	H:MPU←Module L:MPU→Module
6	E	Enable Signal
7-14	DB0-DB7	Data Bus
15	CS1	Select Left, L Action
16	CS2	Select Light, L Action
17	/RST	Reset 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	—	—	4.1	—	V
LED Forward Consumption Current	If	Ta=25° C Vf=4.1V	—	320	—	mA
LED Allowable Dissipation	Pd	—	—	1300	—	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	—	—	8.2	—	V
Input Voltage "H"	Vih	H	0.8Vdd	—	VDD	V
Input Voltage "L"	Vil	L	Vss	—	0.8	V
Output Voltage "H"	VoH	H	2.4	—	—	V
Output Voltage "L"	VoL	L	—	—	0.4	V

