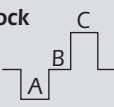


Reliability Condition

MiscIO_4_Type=High
 [Reflective 75 dpi Settings]
 MiscIO_4_Type=High
 Total_Pixels=5489
 Maximum_Integration_Time_HighLamps=2.75
 Maximum_Integration_Time_LowLamps=2.75
 Maximum_Integration_Time_High=2.75
 Maximum_Integration_Time_Low=2.75
 MiscIO_5_Type=High
 MiscIO_6_Type=Output
 MiscIO_6_Type=Input
 MiscIO_6_Type=Input



		TN Type		STN Type	
		Normal Temperature	Wide Temperature	Normal Temperature	Wide Temperature
Viewing Angle	Horizontal Φ	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$
	Vertical θ (min)	10°C to 30°C	10°C to 30°C	-10°C to 40°C	-10°C to 40°C
Operating Temperature		-10°C to 70°C	-25°C to 80°C	0°C to 50°C	-20°C to 70°C
Storage Temperature		-20°C to 80°C	-35°C to 90°C	-20°C to 70°C	-30°C to 80°C
High Temperature (Power Off)		240 Hours @ 70°C	240 Hours @ 90°C	240 Hours @ 65°C	240 Hours @ 75°C
Low Temperature (Power Off)		240 Hours @ -20°C	240 Hours @ -35°C	240 Hours @ -15°C	240 Hours @ -25°C
High Temperature (Power On)		240 Hours @ 70°C	240 Hours @ 80°C	240 Hours @ 60°C	240 Hours @ 70°C
Low Temperature (Power On)		240 Hours @ -10°C	240 Hours @ -25°C	240 Hours @ -10°C	240 Hours @ -20°C
High Temperature & High Humidity		55°C / 90%RH 240 Hours	75°C / 90%RH 240 Hours	45°C / 90%RH 240 Hours	65°C / 90%RH 240 Hours
Thermal Shock 5 Cycles	A	60 Min. @ -20°C	60 Min. @ -35°C	60 Min. @ -20°C	60 Min. @ -30°C
	B	5 Min. @ 25°C	5 Min. @ 25°C	5 Min. @ 25°C	25 Min. @ 25°C
	C	60 Min. @ 70°C	60 Min. @ 90°C	60 Min. @ 70°C	60 Min. @ 80°C
Expected Life		50,000 Hours	50,000 Hours	50,000 Hours	50,000 Hours

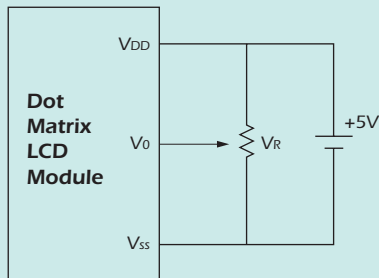


Power Supply Schematics

See individual module specification pages for voltage settings to obtain optimum contrast and viewing angle.

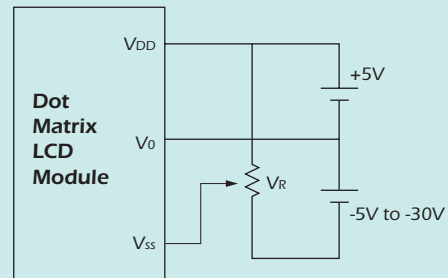
Note: V_R = Variable Resistor 10 Kohm to 22 Kohm for Adjusting Contrast.

1. For Single Source



For Module with Normal Temperature Range Fluid

2. For Double Source



For Module with Extended Temperature Range Fluid
Wide Viewing Fluid