

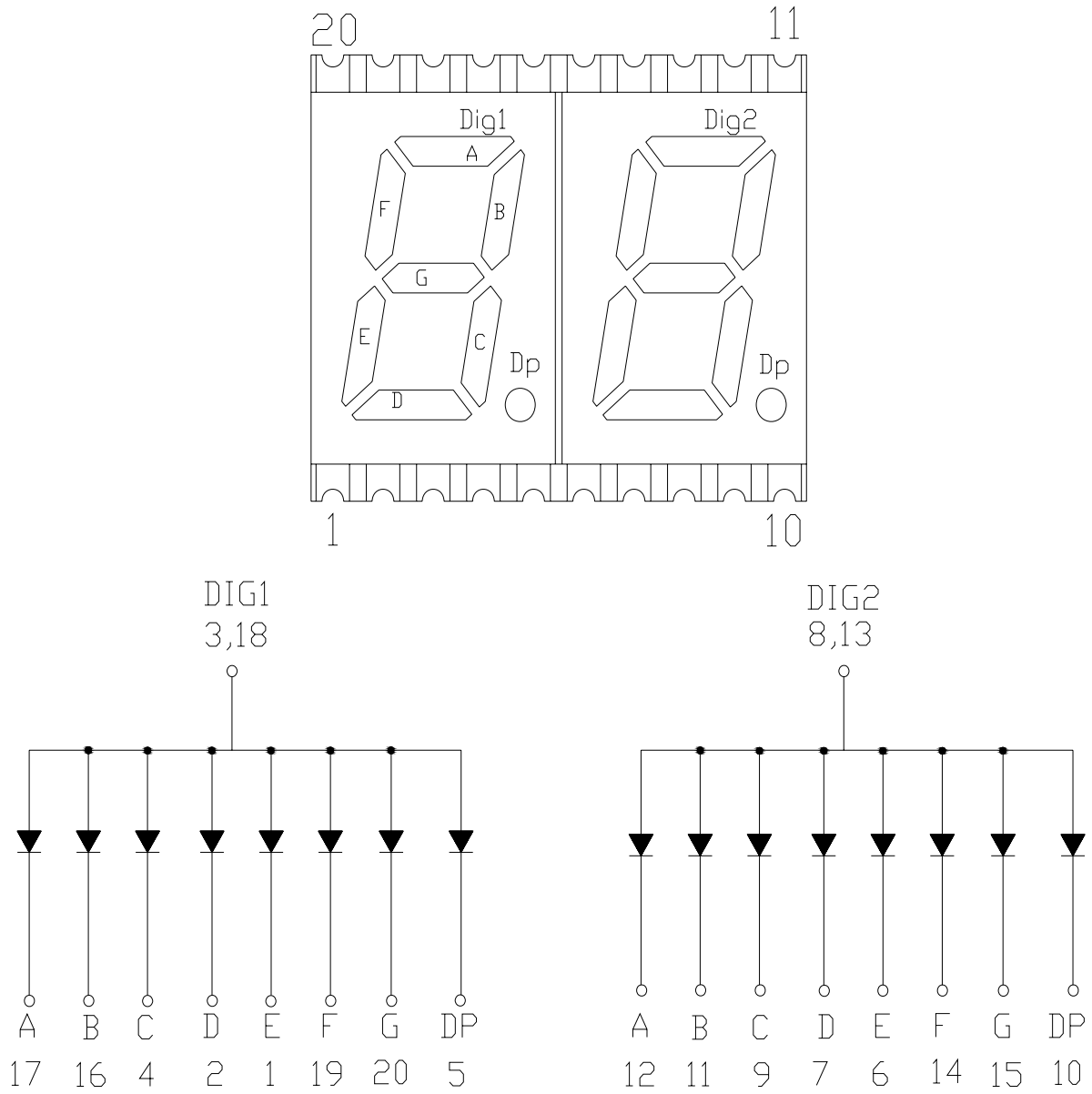
LED 显示器产品说明书

Specification Of LED Display

型号: L-KLS9-SD-3020AR-G

版本: VER1.0

1. 产品线路图 INTERNAL CIRCUIT DIAGRAM



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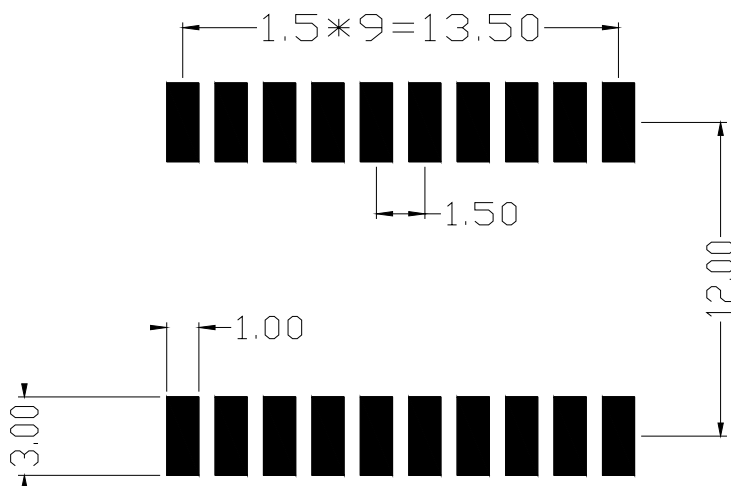
2、产品最大绝对参数值 (Ta: 25°C) ABSOLUTE MAXIMUM RATINGS AT Ta=25°C:

参数 (PARAMETER)	最大值 Max.	单位 UNIT
每段功耗 Power Dissipation Per Segment	52	mW
每段峰值电流 Peak Forward Current Per Segment (1/10duty cycle 0.1ms pulse width)	100	mA
每段平均正向电流 Average Forward Current Per Segment	20	mA
从室温线性减少 Derating Linear From 25°C Per Segment	0.33	mA/°C
每段反向电压 Reverse Voltage Per Segment	5	V
工作条件温度 Operating Temperature Range	-40°C to + 105°C	
储存温度 Storage Temperature Range	-40°C to + 105°C	
距离胶体 1.6mm 焊接, 温度 260°C, 焊接时间最多 3 秒 Lead Soldering Temperature 260°C at 1.6mm From Body for 3 seconds		

3、产品光电参数值 (Ta: 25°C) ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C:

参数 PARAMETER	符号 SYMBOL	MIN.	TYP.	MAX.	UNIT	测试条件 Test condition
每段亮度 Luminous Intensity Per Segment	I_v	—	2.5	—	mcd	$I_F=10mA$
主波长 Dominant Wavelength	λ_D	—	640	—	nm	$I_F=20mA$
光谱半宽度 Spectral Line Half-Width	$\Delta\lambda$	—	30	—	nm	$I_F=20mA$
每颗正向电压 Forward Voltage Per Dice	V_F	—	2.0	2.6	V	$I_F=20mA$
每颗反向电流 Reverse Current Per Dice	I_R	—	—	50	μA	$V_R=5V$

4、推荐使用的焊盘尺寸 Recommended Soldering Pattern:



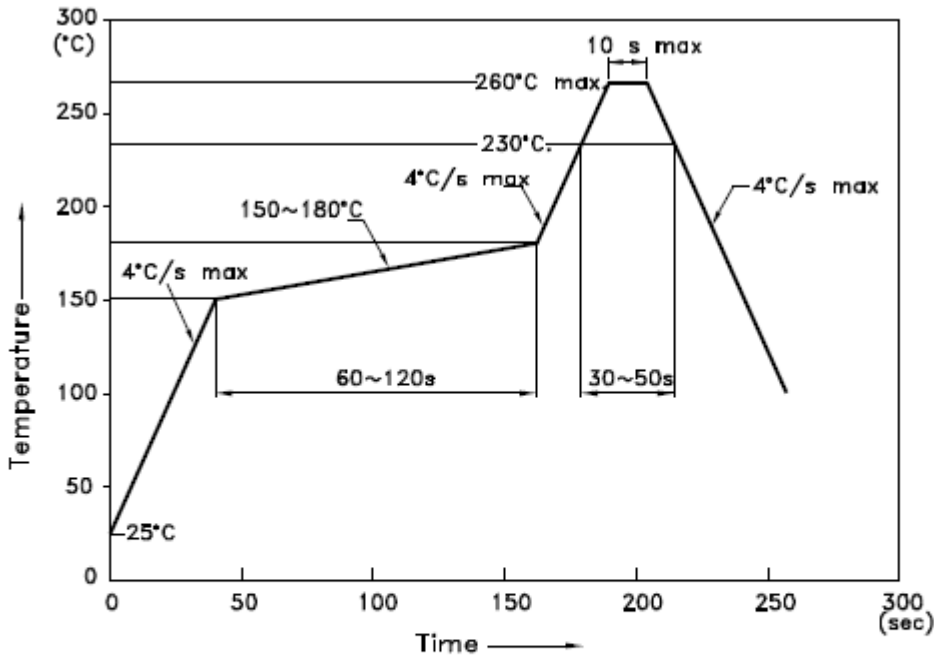
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8、推荐的 SMT 焊接曲线 Recommended SMT condition:



NOTES:

1. We recommend the reflow temperature $245^{\circ}\text{C}(\pm 5^{\circ}\text{C})$. The maximum soldering temperature should be limited to 260°C .
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.