

KYSAN SKU: 5030041
MFG: SM412301K

1. ELECTRO – OPTICAL CHARACTERISTICS 光电特性: (Ta=25℃)

SYMBOL 符 号	PARAMETER 项 目	TEST CONDITION 测 试 条 件	TYP 标准值	MAX 最大值	UNIT 单位
V _F	Forward Voltage ,Per Segment 正 向 压 降	IF=20mA	7.2	8.8	V
I _R	Reverse Current , Per Segment 反 向 漏 电 流	VR=5V		50	μA
λ _p	Peak Emission Wavelength 峰 值 波 长	IF=20mA	640		nm
I _v	Luminous Intensity Per Segment 法 向 光 强	IF=20mA	13		mcd

2. ABSOLUTE MAXIMUM RATING 其它参数: (Ta=25℃)

SYMBOL 符 号	PARAMETER 项 目	RED 高亮红	UNIT 单 位
PAD	Power Dissipation Per Segment 功 耗	100	mw
VR	Reverse Voltage Per Segment 反 向 耐 压	5	V
IAF	Continuous Forward Current Per Segment 最 大 使 用 电 流	20	mA
IPF	Peak Forward Current Per Segment(Duty-0.1,1KHz) 最 大 峰 值 电 流	90	mA
---	Derating Linear From 25℃ Per Segment 温 度 系 数	0.5	mA/℃
TOPr	Operating Temperature Range 工 作 温 度	-30℃ to 80℃	
Tstg	Storage Temperature Range 贮 藏 温 度	-30℃ to 85℃	
Solder Temperature1/16 inch Below Seating Plane 3 Seconds at 250℃ 焊接温度 250℃/5 秒 离管座 1.6mm 以上			

Typical Electro-Optical Characteristics Curves (25°C Free Air Temperature Unless Otherwise Specified)

Fig 1 SPECTRAL RESPONSE

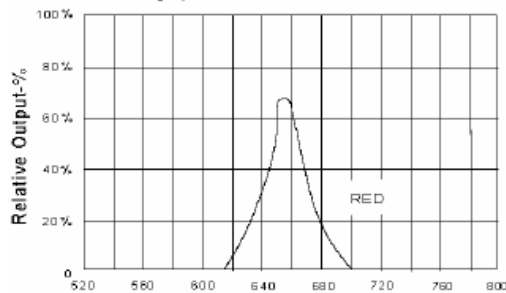


Fig 2 FORWARD CURRENT VS FORWARD VOLTAGE

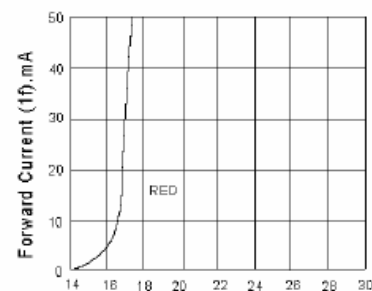


Fig 3 RELATIVE LUMINOUS INTENSITY
VS FORWARD CURRENT

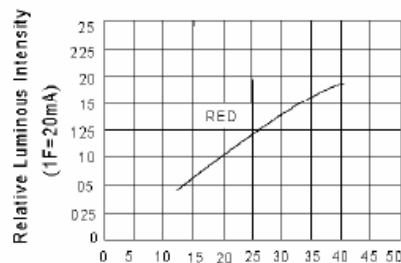
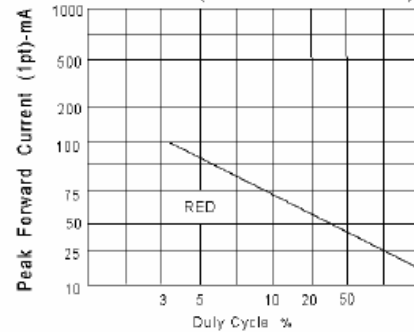
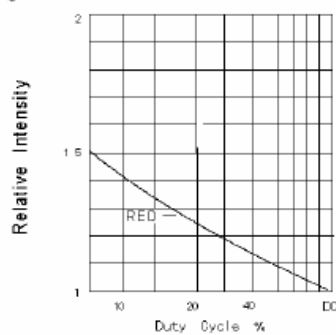


Fig 4 MAX PEAK CURRENT VS
DUTY CYCLE (REFRESH RATE: 1KHZ)



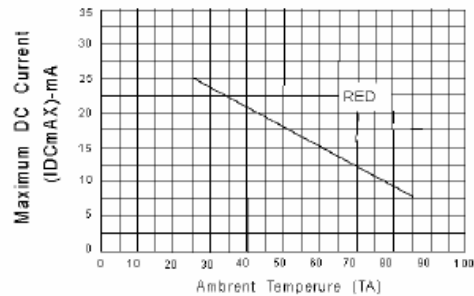
Forward Voltage (VF)-Volt

Fig 5 LUMINOUS INTENSITY VS DUTY CYCLE

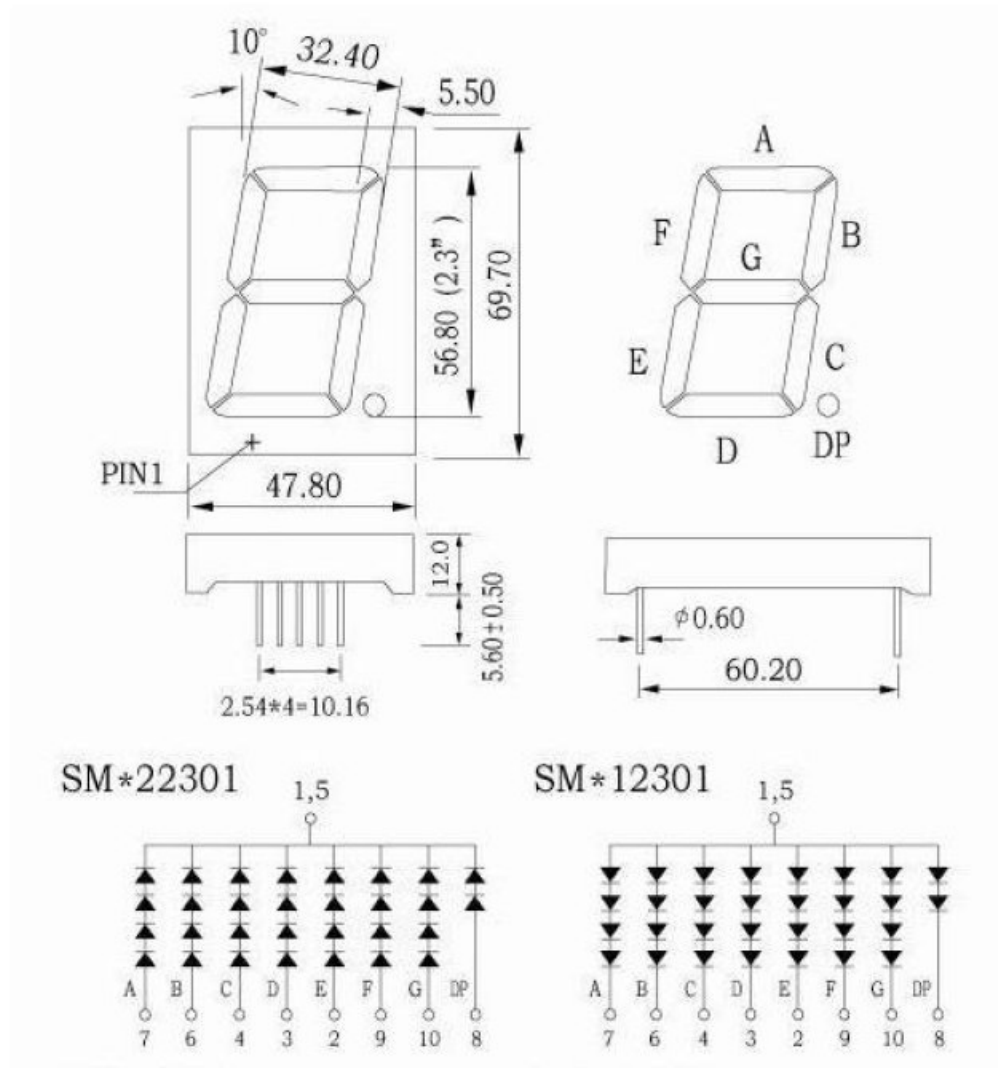


Forward Current (1F)-mA

Fig 6 MAXIMUM ALLOWABLE DC CURRENT
PER SEGMENT DOT VS A FUNCTION
AMBIENT TEMPERATURE



PACKAGE DIMENSIONS



NOTES : 1. All dimensions are in millimeters. (inches)

2. Tolerance is $\pm 0.25(0.010)$ unless otherwise specified.