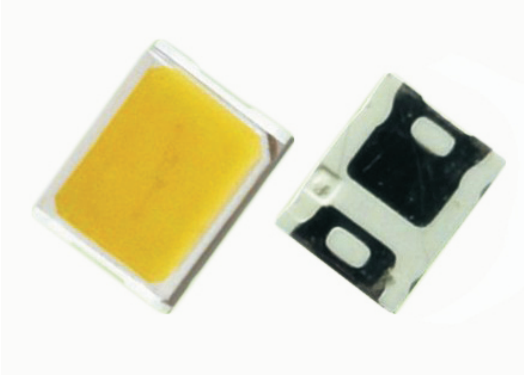
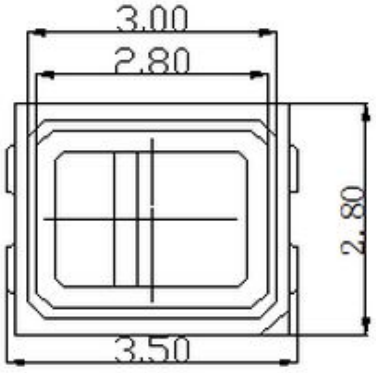
LED Series

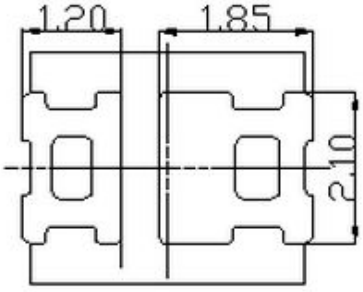
KLS9-S2835 SMD Top Lighting LED 2.8*3.5mm

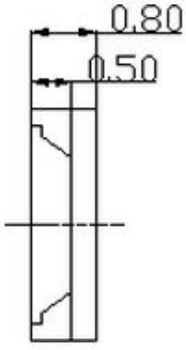


Features:

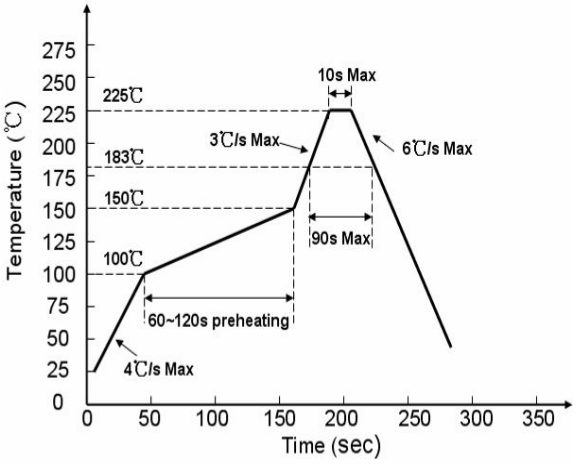
Package(L/W/H) : 2.8x3.5x0.8 mm
Color: Ultra Bright Warm White/Ultra Bright White
Lens: Yellow Diffuse Flat Mold
EIA STD Package
Meet ROHS, Green Product
Compatible With SMT Automatic Equipment
Compatible With Infrared Reflow Solder And Wave Solder Process



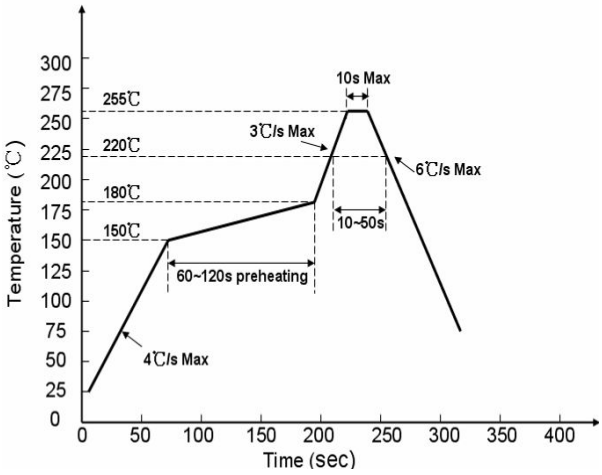




LED Series



For Lead Solder



For Lead Free Solder

Absolute Maximum Ratings At Ta=25°			
Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	230	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms PulseWidth)	I_{FP}	230	mA
DC Forward Current	I_F	60	mA
Reverse Voltage	V_R	5	V
Operating Temperature Range	Topr	-30°C ~ +85°C	
Storage Temperature Range	Tstg	-40°C ~ +90°C	
Soldering Condition	Tsol	Reflow soldering : 260°C For 5 Seconds Hand soldering : 300°C For 3 Seconds	

Electrical Optical Characteristics At Ta=25℃						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	LM	20	22	--	LM	IF = 60mA
Viewing Angle	2θ1/2	--	120	--	deg	
CIE 1931 Coordinate	X		0.40	--	nm	
	Y	--	0.40	--	nm	
Spectral Line Half-Width	Δλ		--	--	nm	
Forward Voltage	VF	3.0	3.4	3.9	V	
Reverse Current	IR	--	--	10	μA	VR = 5V

Typical Electrical-Optical Characteristics Curves

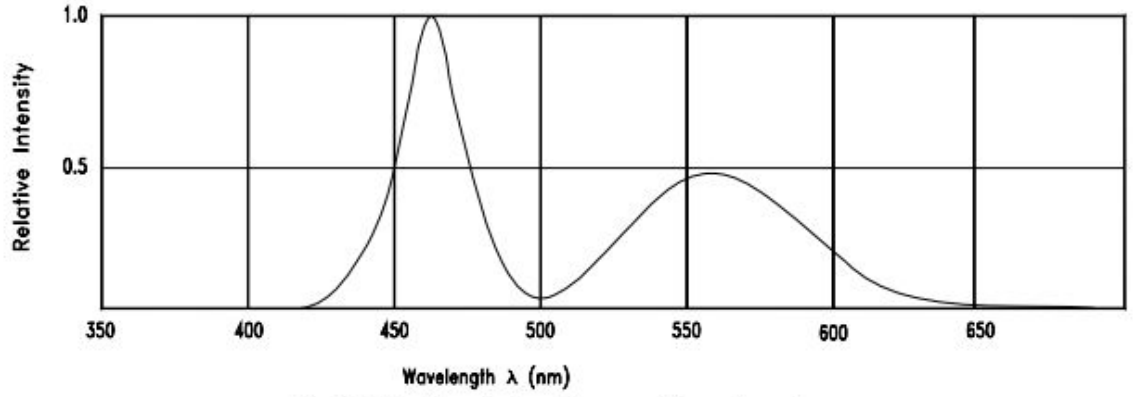


Fig.1 Relative Intensity vs. Wavelength

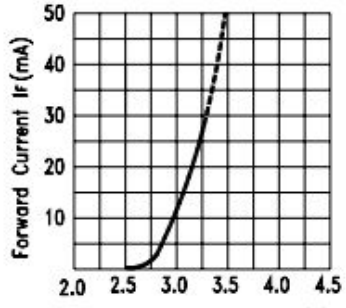


Fig.2 Forward Current vs. Forward Voltage

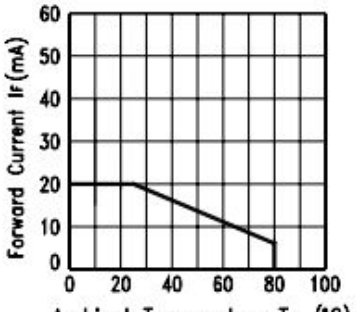


Fig.3 Forward Current Derating Curve

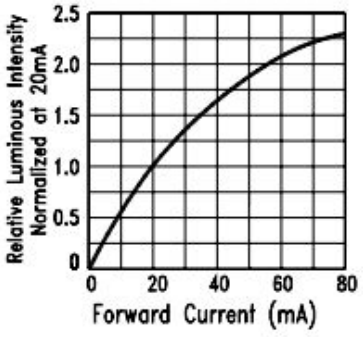


Fig.4 Relative Luminous Intensity vs. Forward Current

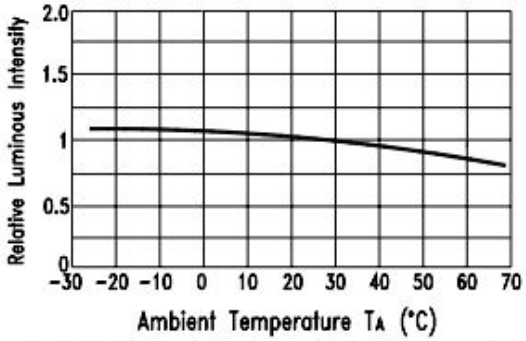


Fig.5 Luminous Intensity vs.Ambient Temperature

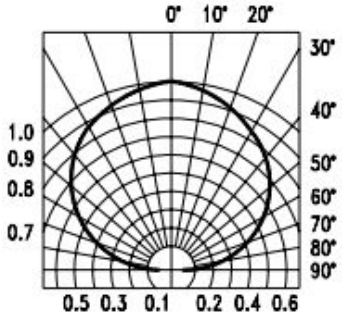


Fig.6 Spatial Distribution