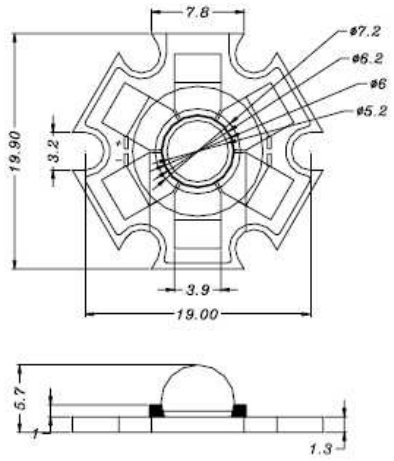
BS Elektronik Service GmbH

SE-3W-SH-12V

Package Dimensions



UNIT: mm
TOLERANCE: ± 0.1mm

Notes: 1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm(.010") unless otherwise noted.
3. Protruded resin under flange is 1.0mm(.04") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.

Absolute Maximum Ratings at TA=25℃

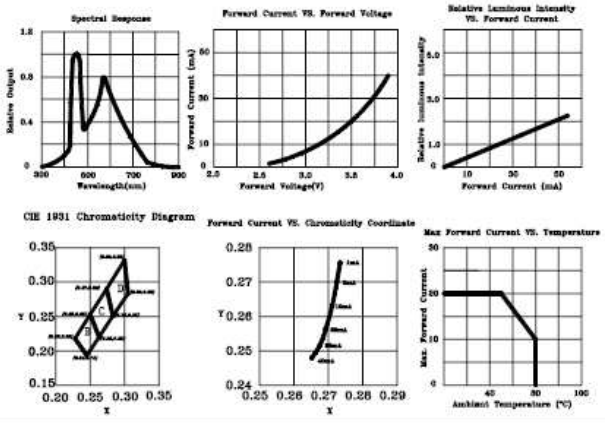
Parameter	Maximum Rating	Unit
DC Forward Current/Power Dissipation	350/3	mA/W
Reverse Voltage(Vr)	12	V
Peak Pulsed Forward Current	500	mA
LED Junction Temperature	135	℃
Storage & Operating Temperature	-40℃ to + 105℃	
Electrostatic Discharge Classification(HBM)	±5000V	

*The best current for long last：16mA

Electrical / Optical Characteristics at TA=25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous or Radiant Flux	I_V	65		105	lm	IF=350mA
Viewing Angle	$2\theta_{1/2}$	60	70		deg	IF=350mA
Chromaticity Coordinates	X		0.30			IF=350mA
	Y		0.33			
Forward Voltage	V_F			12	V	IF=350mA
Reverse Current	IR			10	μA	VR = 5V

TYPICAL ELECTRON-OPTICAL CHARACTERISTIC CURVES
25°C Free Air Temperature Unless Otherwise Specified



Reliability Test Item and Conditions

· Results of Reliability Test

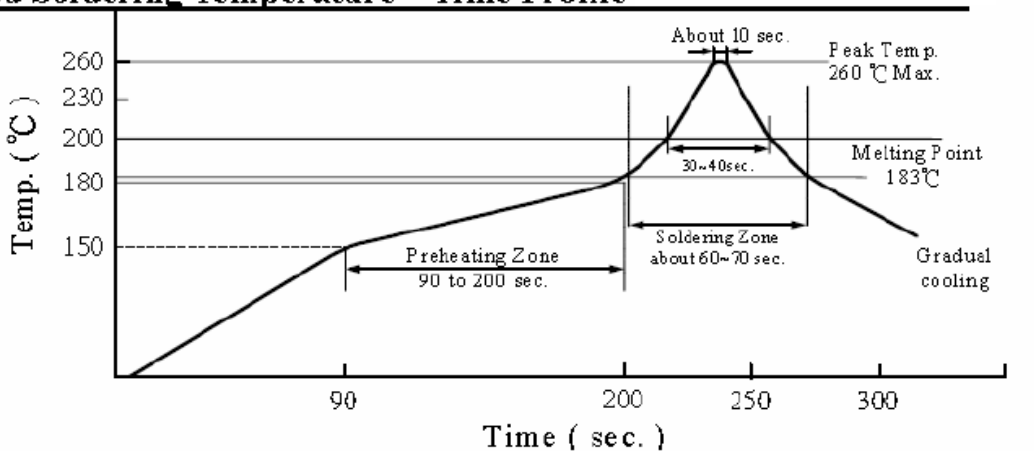
No	Item	Test Condition	Test Hours/Cycles	Sample No	Ac / Re
1	DC Operating Life	I_F : 350mA	1,000 HRS	20 PCS	0 / 1
2	High Temperature Storage	Temp : 100℃	1,000 HRS	20 PCS	0 / 1
3	Low Temperature Storage	Temp : -40℃	1,000 HRS	20 PCS	0 / 1
4	Thermal Shock Test	-40℃ ⟷ 80℃ 5min 8secs 5min	300 CYCLES	20 PCS	0 / 1
5	Temperature Cycle	-40℃~25℃~100℃~25℃ 30min 5min 30min 5min	100 CYCLES	20 PCS	0 / 1
6	Temp. & Humidity bias	T_A=85℃, RH=85%, I_F=100mA	500 HRS	20 PCS	0 / 1

· The Reliability Criteria of SMD LED

Item	Symbol	Test Coundition	Limit	
			Min.	Max.
Forward Voltage	V_F	I_F : 350mA	-	U.S.L*1.1
Reverse Current	I_R	V_R : 12V	-	U.S.L*2
Luminous Intensity	I_V	I_F : 350mA	L.S.L.*0.7	-

*U.S.L. : Upper Standard Level *L.S.L. : Lower Standard Level

commended Soldering Temperature Time Profile



Spatial Distribution