



SMD LED



Specification For Approval

Customer :

Description : SMD LED

Part Number : SP-150-UDR

Date :

Approved By:

Prepared By:

Checked	QC	Designed	Sales

Part No:SP-150-UDR

★Absolute Maximum Ratings

(Ta=25°C)

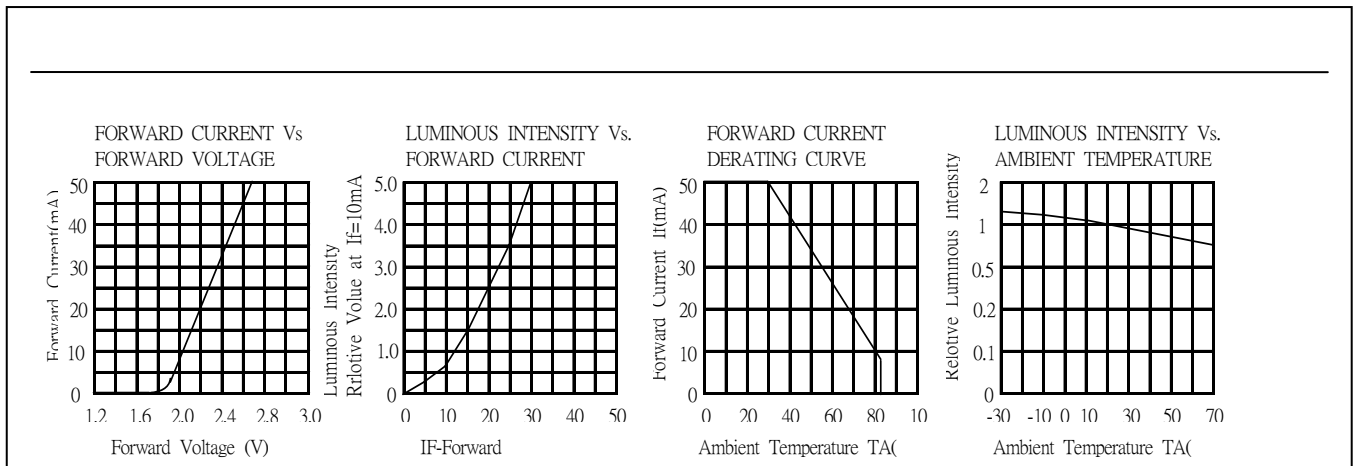
Parameter	Symbol	MAX. Rating	Unit
Power Dissipation	Pd	80	mW
Continuous Forward Current	IF	50	mA
Peak Forward current (10 μ s Pulse)	IFM	200	mA
Reverse Voltage	VR	5.0	V
Operating Temperature	Topr	-40~+85	°C
Storage Temperature	Tstg	-40~+85	°C

Soldering Temperature: Reflow soldering 260°C \pm 10sec / Hand soldering 300°C \pm 3sec

★Electric-Optical Characteristics

Parameter	Symbol	Test Condition	MIN	TYP	MAX	Unit
Forward Voltage	VF	IF=20mA		2.0	2.6	V
Reverse Voltage	VR	IR=10uA	5			V
Luminous Intensity	IV	IF=20mA	30	70		mcd
Peak Emission Wavelength	λ P	IF=20mA		655		nm
Spectrum Width Of Half Value	$\Delta \lambda$	IF=20mA		20		nm

★Characteritics Diagrams



Part No:SP-150-UDR

★Reliability Test

No	Item	Test Condition	Test Hours/Cycles	Samples Tested	Acc./Rej
1	Room Temperature DC Oper-ating Life	Ta=25°C, I _F =20mA	1000 Hrs	22	0/1
2	Thermal Shock	85±5°C (10min)→ -40±5°C (10min)	200 Cycles	22	0/1
3	Temperature Cycle	-40°C (30min) →(5min)→+85°C (30min)	200 Cycles	22	0/1
4	High Temp./ High Humi. Test	85°C /90±5%RH	1000 Hrs	22	0/1
5	High Temperature Storage	Ta=85°C	1000 Hrs	22	0/1
6	Low Temperature Storage	Ta= - 40°C	1000 Hrs	22	0/1
7	Soldering Heat	260°C±10°C	2 Times	22	0/1