

Light is OSRAM

01.06.2017

OS-IN-2017-023

Correction of Data Sheet for SPL LL90_3

Objective	Correction of maximum operating temperature range in data sheet for SPL LL90_3																																																																									
Products affected	SPL LL90_3 (Q65110A1009)																																																																									
Background	The maximum operating temperature range in the maximum rating must be adapted to the diagrams of Max. Charge Voltage vs. Ambient Temperature and Peak Output Power at Max. Charge Voltage vs. Ambient Temperature which are both already specified to 100°C.																																																																									
Realization	<u>Current Status</u>	<u>New Status</u>																																																																								
	Operating temperature: -40°C +85°C	Operating temperature: -40°C +100°C																																																																								
	<table border="1"> <thead> <tr> <th colspan="4">Maximum Ratings (short time operation / kurzzeitiger Betrieb, T_A = 25 °C)</th> </tr> <tr> <th>Parameter</th> <th>Symbol</th> <th>Values</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>Peak output power</td> <td>P_{peak}</td> <td>80</td> <td>W</td> </tr> <tr> <td>Charge voltage (V_{GS} = 15 V)</td> <td>V_C</td> <td>20</td> <td>V</td> </tr> <tr> <td>Gate voltage</td> <td>V_{GS}</td> <td>-20 ... 20</td> <td>V</td> </tr> <tr> <td>Operating temperature</td> <td>T_{op}</td> <td>-40 ... 85</td> <td>°C</td> </tr> <tr> <td>Junction temperature</td> <td>T_j</td> <td>100</td> <td>°C</td> </tr> <tr> <td>Storage temperature range</td> <td>T_{stg}</td> <td>-40 ... 100</td> <td>°C</td> </tr> <tr> <td>Soldering temperature (t_{max} = 10 s)</td> <td>T_s</td> <td>260</td> <td>°C</td> </tr> </tbody> </table>	Maximum Ratings (short time operation / kurzzeitiger Betrieb, T _A = 25 °C)				Parameter	Symbol	Values	Unit	Peak output power	P _{peak}	80	W	Charge voltage (V _{GS} = 15 V)	V _C	20	V	Gate voltage	V _{GS}	-20 ... 20	V	Operating temperature	T _{op}	-40 ... 85	°C	Junction temperature	T _j	100	°C	Storage temperature range	T _{stg}	-40 ... 100	°C	Soldering temperature (t _{max} = 10 s)	T _s	260	°C	<table border="1"> <thead> <tr> <th colspan="4">Maximum Ratings (short time operation / kurzzeitiger Betrieb, T_A = 25 °C)</th> </tr> <tr> <th>Parameter</th> <th>Symbol</th> <th>Values</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>Peak output power</td> <td>P_{peak}</td> <td>80</td> <td>W</td> </tr> <tr> <td>Charge voltage (V_{GS} = 15 V)</td> <td>V_C</td> <td>20</td> <td>V</td> </tr> <tr> <td>Gate voltage</td> <td>V_{GS}</td> <td>-20 ... 20</td> <td>V</td> </tr> <tr> <td>Operating temperature</td> <td>T_{op}</td> <td>-40 ... 100</td> <td>°C</td> </tr> <tr> <td>Junction temperature</td> <td>T_j</td> <td>100</td> <td>°C</td> </tr> <tr> <td>Storage temperature range</td> <td>T_{stg}</td> <td>-40 ... 100</td> <td>°C</td> </tr> <tr> <td>Soldering temperature (t_{max} = 10 s)</td> <td>T_s</td> <td>260</td> <td>°C</td> </tr> </tbody> </table>	Maximum Ratings (short time operation / kurzzeitiger Betrieb, T _A = 25 °C)				Parameter	Symbol	Values	Unit	Peak output power	P _{peak}	80	W	Charge voltage (V _{GS} = 15 V)	V _C	20	V	Gate voltage	V _{GS}	-20 ... 20	V	Operating temperature	T _{op}	-40 ... 100	°C	Junction temperature	T _j	100	°C	Storage temperature range	T _{stg}	-40 ... 100	°C	Soldering temperature (t _{max} = 10 s)	T _s	260	°C
Maximum Ratings (short time operation / kurzzeitiger Betrieb, T _A = 25 °C)																																																																										
Parameter	Symbol	Values	Unit																																																																							
Peak output power	P _{peak}	80	W																																																																							
Charge voltage (V _{GS} = 15 V)	V _C	20	V																																																																							
Gate voltage	V _{GS}	-20 ... 20	V																																																																							
Operating temperature	T _{op}	-40 ... 85	°C																																																																							
Junction temperature	T _j	100	°C																																																																							
Storage temperature range	T _{stg}	-40 ... 100	°C																																																																							
Soldering temperature (t _{max} = 10 s)	T _s	260	°C																																																																							
Maximum Ratings (short time operation / kurzzeitiger Betrieb, T _A = 25 °C)																																																																										
Parameter	Symbol	Values	Unit																																																																							
Peak output power	P _{peak}	80	W																																																																							
Charge voltage (V _{GS} = 15 V)	V _C	20	V																																																																							
Gate voltage	V _{GS}	-20 ... 20	V																																																																							
Operating temperature	T _{op}	-40 ... 100	°C																																																																							
Junction temperature	T _j	100	°C																																																																							
Storage temperature range	T _{stg}	-40 ... 100	°C																																																																							
Soldering temperature (t _{max} = 10 s)	T _s	260	°C																																																																							
Time Schedule	Data Sheet is available.																																																																									
Assessment	No change in fit, form, function and reliability of the Laser.																																																																									

Please direct your inquiry to your local Sales office.

OSRAM Opto Semiconductors
GmbH

Head Office:

Leibnizstrasse 4
93055 Regensburg, Germany
Phone +49 941 850-5
Fax +49 941 850-1002
www.osram-os.com

Light is OSRAM

OS-IN-2017 -023

Product list

List of affected products in OS-IN-2017-023

Device	Q-numbers
SPL LL90_3	Q65110A1009

OSRAM Opto Semiconductors
GmbH

Head Office:

Leibnizstrasse 4
93055 Regensburg, Germany
Phone +49 941 850-5
Fax +49 941 850-1002
www.osram-os.com