# ASMT-Mx06/ASMT-MxB6



Moonstone 1W High Brightness Power LED Light Source

# **Reliability Data Sheet**

### **Description**

The following cumulative test results have been obtained from testing performed at Broadcom in accordance with JEDEC.

Broadcom tests parts at the absolute maximum rated conditions recommended for the device. The actual performance you obtain from Broadcom parts depends on the electrical and environmental characteristics of your application but will probably be better than the performance outlined in the following table.

**Table 1 Environmental Tests** 

Test Name	Reference	Test Conditions	Units Tested	Units Failed
Temperature Cycle	Broadcom Req.	-40°C/120°C 30-min. dwell, 5 min. transfer, 100 cycles	500	0
High Temperature Operating Life	JESD22-A108	$T_{hs} = 99$ °C, $I_F = 500$ mA, for 1000 hours	80	0
Low Temperature Operating Life	JESD22-A108	$T_h s = -40$ °C, $I_F = 500$ mA for 1000 hours	80	0
Temperature Humidity Operating Life	JESD22-A101	$T_A = 60$ °C, 90% RH, for 500 hours, $I_F = 500 \text{ mA}$	80	0
Temperature Humidity Storage Life	Broadcom Req.	T <sub>A</sub> = 60°C, 90% RH, for 1000 hours	80	0
High Temperature Storage Life	JESD 22-A103	T <sub>A</sub> = 125°C, for 1000 hours	80	0
Low Temperature Storage	JESD22-A119	$T_A = -40$ °C	80	0
Solderability	JESD 22-B102	245°C for 5s	30	0
Mechanical Shock	JESD22-B104	5 shocks each X1, X2, Y1, Y2, Z1, Z2, 1500G, 0.5-ms pulse	30	0
Vibration	JESD22-B103	4 cycles, 4mins each X, Y and Z at 0.06inch @ 20Hz-100Hz, 50g @ 100Hz-2000Hz	30	0

**NOTE** A failure is any LED that is open, shorted or fails to emit light (except solderability test).

#### Disclaimer

Broadcom's products are not specifically designed, manufactured, or authorized for sale as parts, components, or assemblies for the planning, construction, maintenance, or direct operation of a nuclear facility or for use in medical devices or applications. The customer is solely responsible, and waives all rights to make claims against Broadcom or its suppliers, for all loss, damage, expense, or liability in connection with such use.

For product information and a complete list of distributors, please go to our web site: www.broadcom.com.

Broadcom, the pulse logo, Connecting everything, Avago Technologies, Avago, and the A logo are among the trademarks of Broadcom and/or its affiliates in the United States, certain other countries and/or the EU.

Copyright © 2017 by Broadcom. All Rights Reserved.

The term "Broadcom" refers to Broadcom Limited and/or its subsidiaries. For more information, please visit www.broadcom.com.

Broadcom reserves the right to make changes without further notice to any products or data herein to improve reliability, function, or design.

Information furnished by Broadcom is believed to be accurate and reliable. However, Broadcom does not assume any liability arising out of the application or use of this information, nor the application or use of any product or circuit described herein, neither does it convey any license under its patent rights nor the rights of others.

ASMT-Mxx6-RDS100 - March 9, 2017





# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for High Power LEDs - White category:

Click to view products by Broadcom manufacturer:

Other Similar products are found below:

LTW-K140SZR40 B42180-08 STW8Q2PA-R5-HA LTPL-P00DWS57 LTW-K140SZR30 LZP-D0WW00-0000 SZ5-M1-WW-C8-V1/V3-FA LTW-K140SZR57 LTW-K140SZR27 BXRE-50C2001-C-74 MP-5050-8100-27-80 MP-5050-6100-65-80 MP-5050-6100-50-80 MP-5050-6100-40-80 MP-5050-6100-30-80 KW DPLS32.SB-6H6J-E5P7-EG-Z264 L1V1-507003V500000 KW DMLS33.SG-Z6M7-EBVFFCBB46-8E8G-700-S ASMT-MW05-NMNS1 KW DPLS33.KD-HIJG-D30D144-HN-22C2-120-S KW DDLM31.EH-5J6K-A737-W4A4-140-R18 GW JTLRS1.CM-K1LW-XX57-1-100-Q-R33 KW DDLM31.EH-5J6K-A636-W4A4-140-R18 KW DDLM31.EH-5J6K-A131-W4A4-140-R18 SML-LXL8047MWCTR/3 L2C5-40HG1203E0900 JB3030AWT-P-U27EA0000-N0000001 JK3030AWT-P-U30EA0000-N0000001 JK3030AWT-P-H30EB0000-N0000001 JK3030AWT-P-H40EB0000-N0000001 JK3030AWT-P-U27EB0000-N0000001 JK3030AWT-P-U30EB0000-N0000001 XPGBWT-HE-0000-00JE5 GW JCLPS2.EM-H3H8-A131-1-65-2-R33 GW PUSTA1.PM-PAPC-XX53-1-1050-R18 BXRE-30E4000-C-83 BXRE-50C6501-D-84 BXRE-27E1000-B-83 BXRE-30G0800-D-83 BXRE-50C4001-B-84 BXRH-40E4000-F-83 BXRH-27G4000-F-83 GW CSSRM2.PM-N3N5-XX53-1 GW P9LMS1.EM-NRNU-30S7-0-200-R18 GW PSLPS1.EC-KSKU-5R8T-1 LTPL-M03614ZS50-F1 LTW-2835SZK65 LTW-3030AQL40 LTW-3030AZL40-EU