
Subject: HLMP-1700 low current 3 mm red LED
Posted by [FL152](#) on Sat, 07 Apr 2018 21:31:12 GMT
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Many tubes work with relative low current (0,5 ... 2 mA) and have relatively low Ugk voltage („bias"), say -1 ... -2 V. Examples are 12AX7 and 6SL7 „families" of tubes.

/ 2 mA). I put one „specimen" on test. The aim was finding (un)suitability for cathode bias purpose. Graphical „tangent line" way is used to determine dynamic resistance r_D .

Figure 1: Forward voltage U_f against applied current I_f for HLMP-1700 3 mm low current red LED

Figure 2: Dynamic resistance r_D vs. applied current I_f for HLMP-1700 3 mm low current red LED

As can be seen from the graph, dynamic resistance r_D has values in tens of Ohms, especially for acceptable.

File Attachments

- 1) [graf8.tif](#), downloaded 1103 times
 - 2) [graf9.tif](#), downloaded 1036 times
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