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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  $U_{gk}$  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

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- 1) [graf8.tif](#), downloaded 1294 times
  - 2) [graf9.tif](#), downloaded 1239 times
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