

Circuit Models for Plastic Packaged Microwave Diodes

B. Brown and G. Hiller. "Circuit Models for Plastic Packaged Microwave Diodes." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1779-1782.

This paper reports on the measurement and establishment of circuit models for SOT-23 and SOD-323 packaged diodes. Results indicate that the 1.5 nH estimate for the SOT-23 is a useful result as is 1.2 nH for SOD-323 single packaged diodes. It was also determined that the effective inductance of the SOT-23 may be reduced to approximately 0.4 nH by adding a second bond wire and modifying the microstrip line. Other lead configurations including parallel bond wires and common cathode configurations were also studied.

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