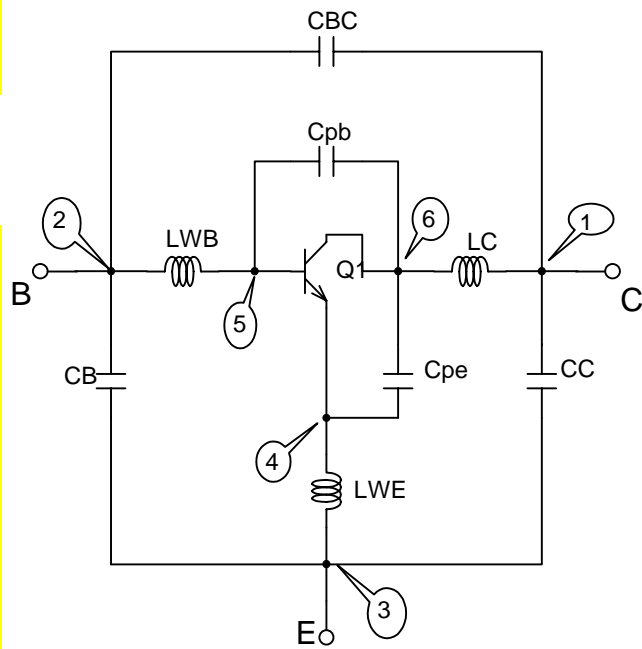


NET LIST

```
.SUBCKT 2SC2714 1 2 3
CB      2      3      60 fF
LWB     2      5      1.00 pH
LWE     4      3      1.35 nH
Cpe     4      6      163 fF
Cpb     5      6      190 fF
LC      6      1      1.00 pH
CC      1      3      130 fF
CBC     1      2      80 fF
Q1      6      5      4      NPN
+ AREA = 1
```

```
.MODEL NPN NPN
+ IS = 1.45 fA
+ BF = 166
+ NF = 1.00
+ VAF = 71 V
+ IKF = 49 mA
+ ISE = 43 fA
+ NE = 2.45
+ BR = 5.33
+ NR = 997 m
+ VAR = 22 V
+ IKR = 69 mA
+ ISC = 847 aA
+ NC = 1.02
+ RB = 14 Ohm
+ IRB = 1.00 uA
+ RBM = 14 Ohm
+ RE = 46 mOhm
+ RC = 9.17 Ohm
+ XTB = 0.00
+ EG = 1.11 eV
+ XTI = 3.00
+ CJE = 1.66 pF
+ VJE = 717 mV
+ MJE = 331 m
+ TF = 153 ps
+ XTF = 100
+ VTF = 383 mV
+ ITF = 90 mA
+ PTF = 47 deg
+ CJC = 781 fF
+ VJC = 630 mV
+ MJC = 462 m
+ XCJC = 1.00
+ TR = 1.00 us
+ FC = 900 m
```

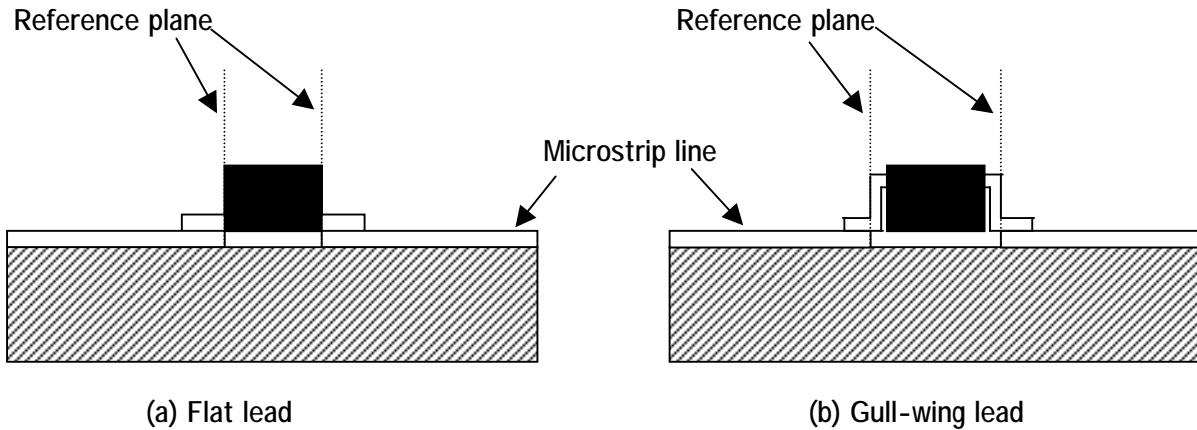
.ENDS



Equivalent circuit

Note 1: This data is valid for up to 3 GHz.

Note 2: These parameters do not take into account the part of the lead which lies outside the reference plane when the device is mounted on the circuit board.



Side view of mounted device

Note 3: The measurements shown in this document are given only as sample characteristics. Moreover, these sample parameters are not guaranteed for when the device is used in the mass production of equipment, since the high-frequency (AC) characteristics of these devices will be affected by the external components which the customer uses, by the design of the circuits and by various other conditions. It is the responsibility of the customer to check the characteristics of a design. Toshiba assumes no responsibility for the integrity of customer circuit designs or applications.