JDV2S71E SPICE PARAMETER 20050308

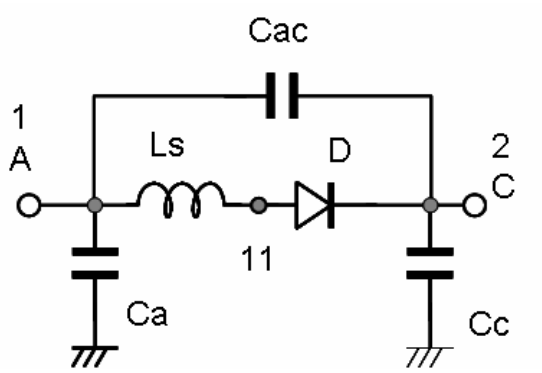
SPICE MODEL: BERKLEY SPICE2G6 DIODE MODEL
DATA FORMAT: MODEL FORMAT
SPICE SYMBOL: IS(A) ,RS(Ω) ,N(-) ,CJ0(F) ,VJ(V) ,M(-) ,BV(V) ,IBV(A) ,XTI(-)
FREQUENCY RANGE: f = 0.1 GHz～3 GHz
REVERSE VOLTAGE RANGE: VR = −0.5V ～ 30 V
AMBIENT TEMPERATURE: Ta = −40°C ～ 85°C
PARAMETER

.SUBCKT D JDV2S71E 1 2

Cac	1 2	1.00E-18	F
Ca	1 0	1.00E-18	F
Cc	2 0	1.00E-18	F
Ls	1 11	1.40E-09	H
D	11 2	vc	

.MODEL vc D

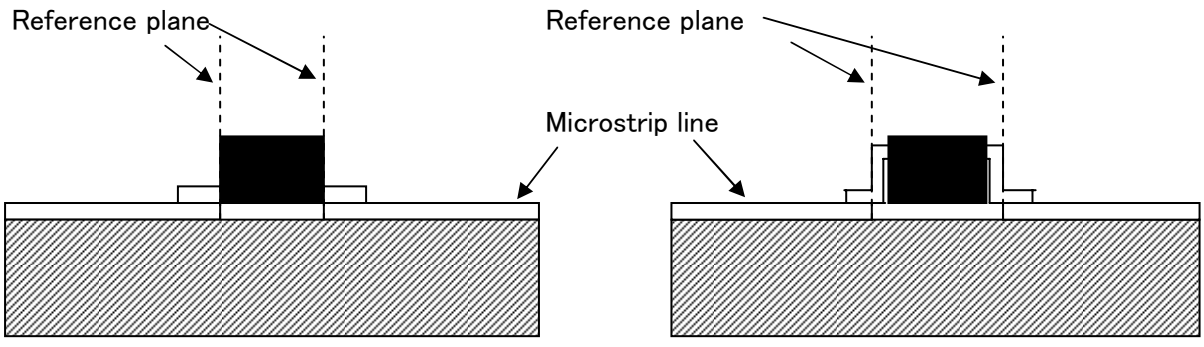
IS	=	1.37E-15	A
N	=	1.055	
BV	=	31	V
IBV	=	1.00E-09	A
RS	=	1.00	Ω
CJ0	=	1.22E-11	F
VJ	=	2.60	V
M	=	1.296	
FC	=	0.5	
TT	=	4.70E-09	s
EG	=	1.11	eV
XTI	=	4.20	



Note 1: These parameters show all die characteristics except Ls.
In practice the device exhibits lead inductance, hence Ls is necessary for simulation.

Note 2: The RS value shown is for when VR = 5 V and f = 470 MHz.
For the RS value under other conditions, refer to the Rs-VR curve in these datasheets.

Note 3: 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.



(a) Flat lead (b) Gull−wing lead

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 circuit 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.