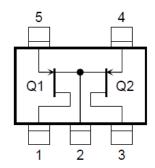
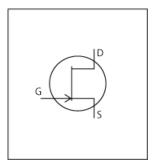


MDC_2SK2145_LT

LTspice Model N-Channel JFET TOSHIBA 2SK2145





Model Information

ModelA macro model based on general SPICE jfet modelCall NameMDC_2SK2145_LTPin Assign1:D1 2:S1/S2 3:D2 4:G2 5:G1File ListModel Library
Model ReportMDC_2SK2145_LT01.lib
MDC_2SK2145_LT.pdf (this file)

Verified Simulator Version Note

LTspice version XVII

References

The information which was used for modeling is as follow:

[Data Sheet]
Date/Version
Product name
Company name
Characteristics

2014-03-01 2SK2145 Toshiba Corporation IdVds[Vgs],IdVgs[Temp],YfsId[Temp],CissVds[Vgs],CrssVgs[Vds]

Simulation Range

This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Gate-drain voltage (DC)	-50	to	0	V
Gate-source voltage (DC)	-50	to	0	V
Temperature	-55	to	125	deg C



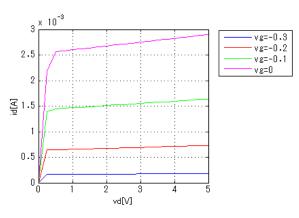
JFET		O : Implemented × : Not Implemented
Model Functions Table	-: Not applicable	
Functions	RANK	Implemented
ID-VDS-VGS	1	0
ID-VGS-TEMP	1	0
yfs-ID	1	0
Yos-ID	1	—
RDS(on)-ID	1	—
Capacitance	1	0
IG-VDG	1	—



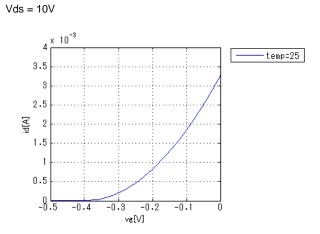
Simulation results are following. Explanatory notes — : simulated

ldVds[Vgs]



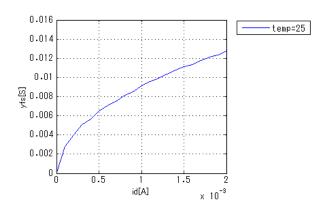


ldVgs[Temp]



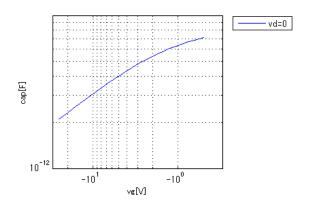
Yfsld[Temp]

vd = 10V



CrssVgs[Vds]

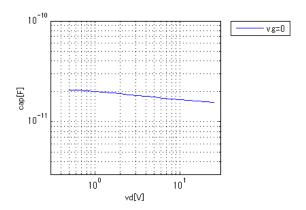
freq = 1000000Hz



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CissVds[Vgs]

freq = 1000000Hz





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