

MDC_UDZS5_6B_AD

ADS Model Zener Diode ROHM UDZS5.6B

Model Information

ModelA macro model based on general SPICE diode modelCall NameMDC_UDZS5_6B_ADPin Assign1:C 2:AFile ListModel LibraryMDC_UDZS5_6B_AD.zipModel ReportMDC_UDZS5_6B_AD.pdf (this file)

Verified Simulator Version Note

ADS version 2020 Update 2

References

The information which was used for modeling is as follow:

[Data Sheet]

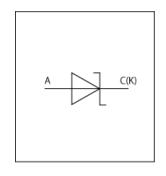
Date/Version	2
Product name	ι
Company name	F
Characteristics	V

2012.02 - Rev.D UDZS5.6B ROHM Co., Ltd. Vrlr[Temp],IrVr[Temp],CjVr,ZzIz

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.	
Zener Voltage(at 5mA)	6	to	6	V
Temperature	-55	to	150	deg C



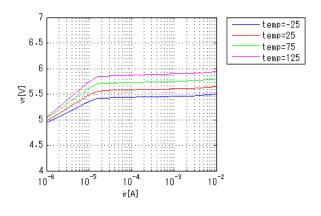


Diode Model Functions Table	O : Implemented × : Not Implemented — : Not applicable	
Functions	RANK	Implemented
IF-VF(Temp)	1	—
IR-VR(Temp)	1	0
Capacitance	1	0
Reverse recovery characteristics	1	—
Zz-Iz	1	0
Rectification characteristics(Bridge)	1	_
Surge voltage-Transient	1	_

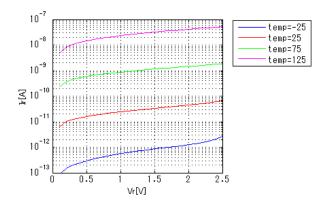


Simulation results are following. Explanatory notes -: simulated

Vrlr[Temp]



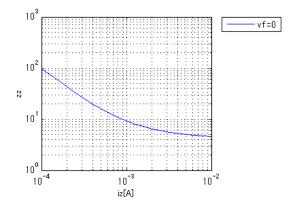
lrVr[Temp]



CjVr Freq = 100000Hz

10⁻¹⁰ <u>temp=25</u> 10⁻¹¹ 10⁻¹² 10⁻¹² vin[V]

Zzlz izl = 0.885377, izh = 1.1146236





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