

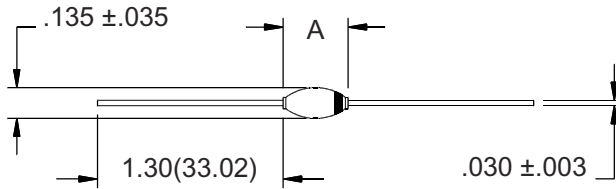
# Spice Model



1N6521



Part Number	Working Reverse Voltage (Vrwm)	Average Rectified Current (Io)		Reverse Current @ Vrwm (Ir)		Forward Voltage (Vf)		1 Cycle Surge Current tp=8.3ms (Ifsm)	Repetitive Surge Current (Ifrm)	Reverse Recovery Time (3) (Trr)	Thermal Impedance J-L			Junction Cap. @50VDC @ 1kHz (Cj)
		55°C(1)	100°C(2)	25°C	100°C	25°C					25°C	25°C	25°C	
	Volts	Amps	Amps	µA	µA	Volts	Amps	Amps	Amps	Amps	ns	°C/W	°C/W	°C/W
1N6521	2000	0.500	0.250	0.5	20	3.0	0.50	25	5	70	5	12	21.5	8



Part	A
1N6521	.220(5.59) MAX. .160(4.06) MIN.
1N6523	.240(6.10) MAX. .180(4.57) MIN.
1N6525	.260(6.60) MAX. .200(5.08) MIN.
1N6527	.320(8.13) MAX. .260(6.60) MIN.

<b>IS</b>	Reverse leakage current	2.50E-07	Amps
<b>N</b>	Emission coefficient	6.8	
<b>T</b>	Temperature	25	C
<b>RS</b>	Diode series resistance	0.29	Ohm
<b>TT</b>	Transit time	70	nS
<b>CJ0</b>	Zero-bias junction capacitance	11.94	pF
<b>VJ</b>	Bulk junction potential	1.57	Volts
<b>M</b>	Grading coefficient	0.5	
<b>EG</b>	Energy-band gap	1.11	Volts
<b>XTI</b>	Temperature coefficient	3	
<b>KF</b>	Flicker-noise coefficient	0	
<b>AF</b>	Flicker-noise exponent	1	
<b>FC</b>	Coefficient for capacitance	0.5	
<b>BV</b>	Diode breakdown voltage	2200	Volts
<b>IBV</b>	Diode breakdown current	100	uAmps



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