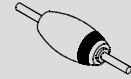


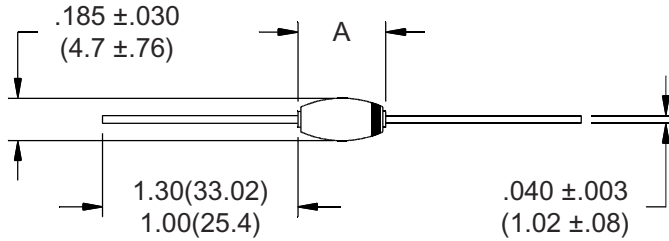
# Spice Model



1N6515



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	ns	°C/W	°C/W	°C/W	pF
1N6515	3000	1.50	1.00	1.0	25	6.0	1.50	60	10	70	3	6	12	20



Part	A
1N6513	.310(7.82) MAX. .250(7.6) MIN.
1N6515	.330(8.38) MAX. .270(6.85) MIN.
1N6517	.350(8.89) MAX. .290(7.37) MIN.
1N6519	.400(10.16) MAX. .340(8.64) MIN.

<b>I<sub>s</sub></b>	Reverse leakage current	5.0E-07	Amps
<b>N</b>	Emission coefficient	13.5	
<b>T</b>	Temperature	25	C
<b>RS</b>	Diode series resistance	0.18	Ohm
<b>TT</b>	Transit time	70	nS
<b>C<sub>j0</sub></b>	Zero-bias junction capacitance	35.24	pF
<b>VJ</b>	Bulk junction potential	3.29	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	3600	Volts
<b>IBV</b>	Diode breakdown current	100	uAmps



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