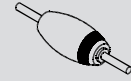


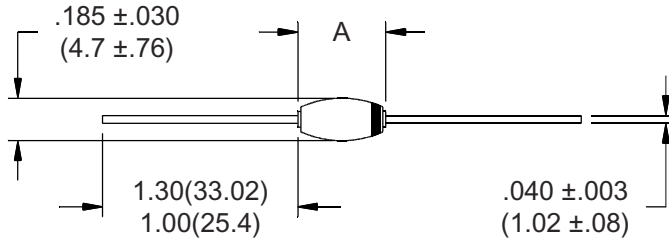
# Spice Model



1N6519



Part Number	Working Reverse Voltage (V <sub>rw</sub> )	Average Rectified Current (I <sub>o</sub> )		Reverse Current @ V <sub>rw</sub> (I <sub>r</sub> )		Forward Voltage (V <sub>f</sub> )		1 Cycle Surge Current t <sub>p</sub> =8.3ms (I <sub>fsm</sub> )	Repetitive Surge Current (I <sub>frm</sub> )	Reverse Recovery Time (3) (T <sub>rr</sub> )	Thermal Impedance J-L			Junction Cap. @50VDC @ 1kHz (C <sub>j</sub> )
		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
1N6519	10000	0.50	0.25	1.0	25	13.0	.05	25	5	70	3	6	12	8



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	37	
<b>T</b>	Temperature	25	C
<b>RS</b>	Diode series resistance	0.75	Ohm
<b>TT</b>	Transit time	70	nS
<b>C<sub>J0</sub></b>	Zero-bias junction capacitance	8.87	pF
<b>VJ</b>	Bulk junction potential	14.03	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	12000	Volts
<b>IBV</b>	Diode breakdown current	100	uAmps



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