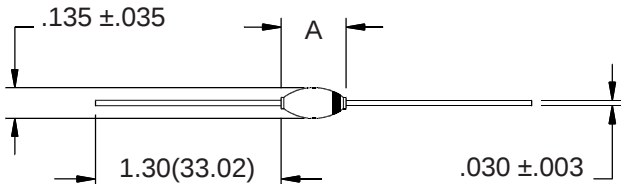


Spice Model										1N6523																																																																				
																																																																														
Electrical Characteristics and Maximum Ratings																																																																														
Part Number	Working Reverse Voltage	Average Rectified Current		Reverse Current @ Vrwm		Forward Voltage		1 Cycle Surge Current tp=8.3ms (Ifsm)	Repetitive Surge Current (Ifrm)	Reverse Recovery Time (3) (Trr)	Thermal Impedance			Junction Cap. @50VDC @ 1kHz (Cj)																																																																
	(Vrwm)	(Io)		(Ir)		(Vf)					θJ-L																																																																			
	Volts	55°C(1)	100°C(2)	25°C	100°C	25°C		25°C	25°C	25°C	L=.000	L=.125	L=.250	25°C																																																																
		Amps	Amps	µA	µA	Volts	Amps	Amps	Amps	ns	°C/W	°C/W	°C/W	pF																																																																
1N6523	3000	0.250	0.125	0.5	20	5.0	0.25	15	3	70	5	12	21.5	4																																																																
 <table><tr><th>Part</th><th>A</th></tr><tr><td>1N6521</td><td>.220(5.59) MAX. .160(4.06) MIN.</td></tr><tr><td>1N6523</td><td>.240(6.10) MAX. .180(4.57) MIN.</td></tr><tr><td>1N6525</td><td>.260(6.60) MAX. .200(5.08) MIN.</td></tr><tr><td>1N6527</td><td>.320(8.13) MAX. .260(6.60) MIN.</td></tr></table>															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.																																																						
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.																																																																													
<table><tr><th>Name</th><th>Parameter</th><th>Value</th><th>Units</th></tr><tr><td>IS</td><td>Reverse leakage current</td><td>2.50E-07</td><td>Amps</td></tr><tr><td>N</td><td>Emission coefficient</td><td>16</td><td></td></tr><tr><td>T</td><td>Temperature</td><td>25</td><td>C</td></tr><tr><td>RS</td><td>Diode series resistance</td><td>0.48</td><td>Ohm</td></tr><tr><td>TT</td><td>Transit time</td><td>70</td><td>nS</td></tr><tr><td>CJ0</td><td>Zero-bias junction capacitance</td><td>4.77</td><td>pF</td></tr><tr><td>VJ</td><td>Bulk junction potential</td><td>3.81</td><td>Volts</td></tr><tr><td>M</td><td>Grading coefficient</td><td>0.5</td><td></td></tr><tr><td>EG</td><td>Energy-band gap</td><td>1.11</td><td>Volts</td></tr><tr><td>XTI</td><td>Temperature coefficient</td><td>3</td><td></td></tr><tr><td>KF</td><td>Flicker-noise coefficient</td><td>0</td><td></td></tr><tr><td>AF</td><td>Flicker-noise exponent</td><td>1</td><td></td></tr><tr><td>FC</td><td>Coefficient for capacitance</td><td>0.5</td><td></td></tr><tr><td>BV</td><td>Diode breakdown voltage</td><td>3600</td><td>Volts</td></tr><tr><td>IBV</td><td>Diode breakdown current</td><td>100</td><td>uAmps</td></tr></table>															Name	Parameter	Value	Units	IS	Reverse leakage current	2.50E-07	Amps	N	Emission coefficient	16		T	Temperature	25	C	RS	Diode series resistance	0.48	Ohm	TT	Transit time	70	nS	CJ0	Zero-bias junction capacitance	4.77	pF	VJ	Bulk junction potential	3.81	Volts	M	Grading coefficient	0.5		EG	Energy-band gap	1.11	Volts	XTI	Temperature coefficient	3		KF	Flicker-noise coefficient	0		AF	Flicker-noise exponent	1		FC	Coefficient for capacitance	0.5		BV	Diode breakdown voltage	3600	Volts	IBV	Diode breakdown current	100	uAmps
Name	Parameter	Value	Units																																																																											
IS	Reverse leakage current	2.50E-07	Amps																																																																											
N	Emission coefficient	16																																																																												
T	Temperature	25	C																																																																											
RS	Diode series resistance	0.48	Ohm																																																																											
TT	Transit time	70	nS																																																																											
CJ0	Zero-bias junction capacitance	4.77	pF																																																																											
VJ	Bulk junction potential	3.81	Volts																																																																											
M	Grading coefficient	0.5																																																																												
EG	Energy-band gap	1.11	Volts																																																																											
XTI	Temperature coefficient	3																																																																												
KF	Flicker-noise coefficient	0																																																																												
AF	Flicker-noise exponent	1																																																																												
FC	Coefficient for capacitance	0.5																																																																												
BV	Diode breakdown voltage	3600	Volts																																																																											
IBV	Diode breakdown current	100	uAmps																																																																											
Dimensions: In. (mm) * All temperatures are ambient unless otherwise noted. * Data subject to change without notice.																																																																														
				Voltage Multipliers, Inc. 8711 W. Roosevelt Ave. Visalia, CA 93291						Tel (559) 651-1402 Fax (559) 651-0740 www.voltagemultipliers.com																																																																				