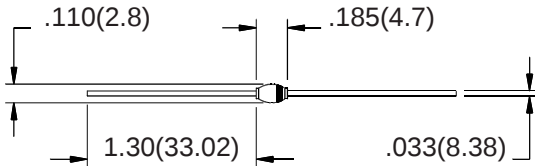


Spice Model											1N5623			
														
Electrical Characteristics and Maximum Ratings														
Part Number	Working Reverse Voltage	Average Rectified Current		Reverse Current @ Vrwm		Forward Voltage		1 Cycle Surge Current tp=8.3ms (Ifsm)	Repetitive Surge Current (Ifrm)	Reverse Recovery Time (3) (Trr)	Thermal Impedance			Junction Cap. @50VDC @ 1kHz (Cj)
	(Vrwm)	(Io)		(Ir)		(Vf)					θ_{J-L}			@ 1kHz (Cj)
		55°C(1)	100°C(2)	25°C	100°C	25°C		25°C	25°C	25°C	L=.125	L=.375	L=.500	25°C
	Volts	Amps	Amps	µA	µA	Volts	Amps	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
1N5623	1000	1.5	0.75	0.5	25	1.6	3.0	25	6	500	18	38	45	16
 														
Name		Parameter		Value		Units								
Is		Reverse leakage current		2.50E-07		Amps								
N		Emission coefficient		2.8										
T		Temperature		25		C								
RS		Diode series resistance		0.08		Ohm								
TT		Transit time		500		nS								
Cj0		Zero-bias junction capacitance		30.65		pF								
VJ		Bulk junction potential		0.69		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		1100		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				