

Spice Model

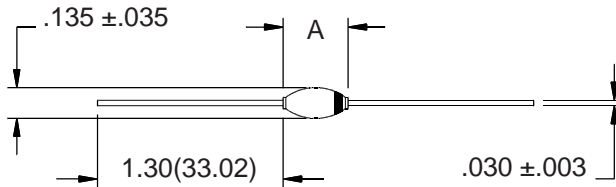


1N6525



Electrical Characteristics and Maximum Ratings

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 θ_{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	μ A	μ A	Volts	Amps	Amps	Amps	Amps	ns	°C/W	°C/W	°C/W
1N6525	5000	0.150	0.075	0.5	20	7.0	0.15	10	2	70	5	12	21.5	3



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.

Name	Parameter	Value	Units
IS	Reverse leakage current	2.50E-07	Amps
N	Emission coefficient	20.4	
T	Temperature	25	C
RS	Diode series resistance	0.9	Ohm
TT	Transit time	70	nS
CJ0	Zero-bias junction capacitance	3.10	pF
VJ	Bulk junction potential	6.73	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	6000	Volts
IBV	Diode breakdown current	100	uAmps

Dimensions: In. (mm) * All temperatures are ambient unless otherwise noted. * Data subject to change without notice.



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