

Spice Model

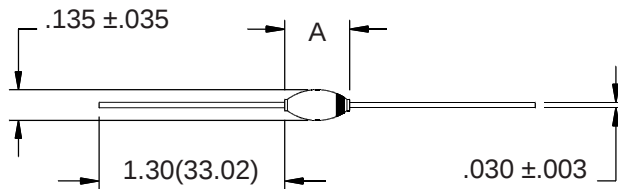


1N6527



Electrical Characteristics and Maximum Ratings

Part Number	Working Reverse Voltage	Average Rectified Current		Reverse Current @ V _{rw}		Forward Voltage		1 Cycle Surge Current t _p =8.3ms (I _{fsm})	Repetitive Surge Current (I _{frm})	Reverse Recovery Time (3) (T _{rr})	Thermal Impedance			Junction Cap. @50VDC @ 1kHz (C _j)
	(V _{rw})	(I _o)		(I _r)		(V _f)					θ _{J-L}			
	Volts	55°C(1) Amps	100°C(2) Amps	25°C μA	100°C μA	25°C		25°C Amps	25°C Amps	25°C ns	L=.000 °C/W	L=.125 °C/W	L=.250 °C/W	25°C pF
1N6527	10000	0.100	0.050	0.5	20	12.0	0.10	5	1	70	5	12	21.5	2



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	38.4	
T	Temperature	25	C
RS	Diode series resistance	1.8	Ohm
TT	Transit time	70	nS
CJ0	Zero-bias junction capacitance	1.45	pF
VJ	Bulk junction potential	17.06	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	12000	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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