

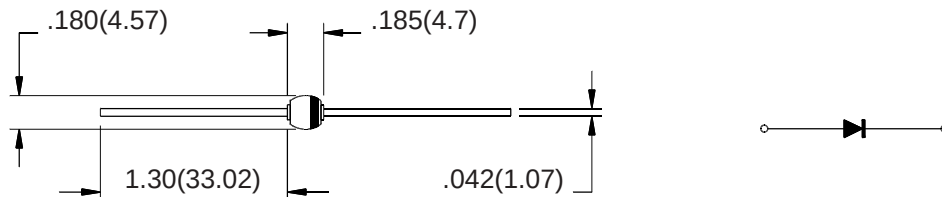
Spice Model

1N5554



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 Volts	Amps	25°C Amps	25°C Amps	25°C ns	L=.125 °C/W	L=.375 °C/W	L=.500 °C/W	25°C pF
1N5552	600	5.0	2.0	1.0	25	1.2	9.0	150	25	2000	9	20	25	35



Name	Parameter	Value	Units
I _s	Reverse leakage current	5.00E-07	Amps
N	Emission coefficient	2.1	
T	Temperature	25	C
RS	Diode series resistance	0.01	Ohm
TT	Transit time	500	nS
C _{jo}	Zero-bias junction capacitance	122.20	pF
VJ	Bulk junction potential	0.80	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	880	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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