

Spice Model

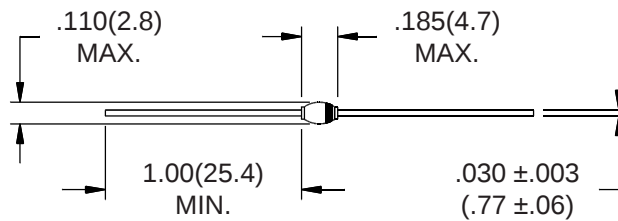


1N6615



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}			
		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	A	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
1N6615	1000	1.50	0.75	1.0	20	1.70	1.00	25	5	70	18	38	45	16



Name	Parameter	Value	Units
IS	Reverse leakage current	2.500E-07	Amps
N	Emission coefficient	3.4	
T	Temperature	25	C
RS	Diode series resistance	.11	Ohm
TT	Transit time	70	nS
CJ0	Zero-bias junction capacitance	38.42	pF
VJ	Bulk junction potential	.39	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.



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