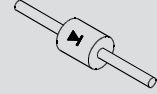


Spice Model

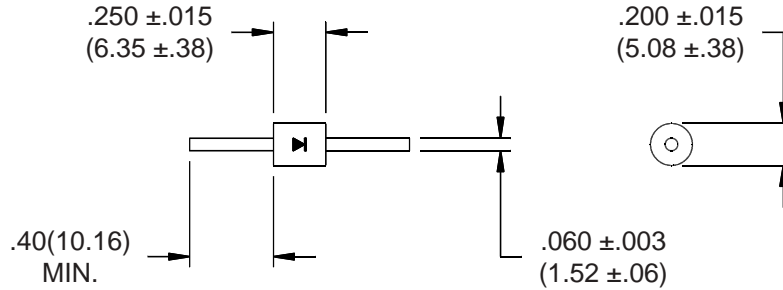


Z100S



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	L=.000	L=.250	25°C
	Volts	Amps	Amps	μ A	μ A	Volts	Amps	Amps	Amps	ns	$^{\circ}$ C/W	$^{\circ}$ C/W	pF
Z100S	10000	0.60	0.30	1.0	25	12.0	0.6	25	5	3000	3	10.0	8



Name	Parameter	Value	Units
I _s	Reverse leakage current	5.0E-07	Amps
N	Emission coefficient	25	
T	Temperature	25	C
RS	Diode series resistance	0.045	Ohm
TT	Transit time	3000	nS
C _{J0}	Zero-bias junction capacitance	9.85	pF
VJ	Bulk junction potential	8.31	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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