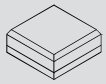
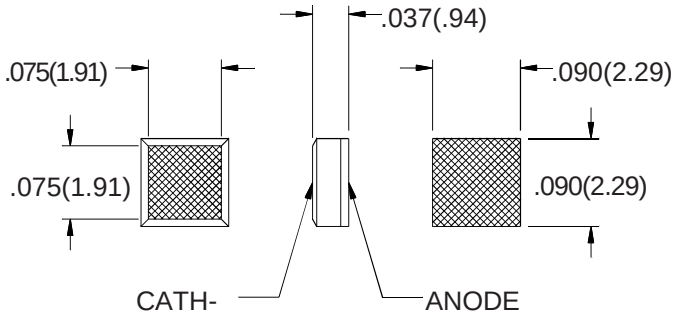
Spice Model

D90FF18R



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)	Therm-al Imped-ance 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	25°C	25°C
	Volts	Amps	Amps	µA	µA	Volts	A	Amps	Amps	ns	°C/W	pF
D90FF18R	1800	1.0	0.75	1.0	25	4.0	0.15	20	4	30	0.8	20



Plating:
50µin silver over 50µin nickel.

Name	Parameter	Value	Units
IS	Reverse leakage current	5.0E-07	Amps
N	Emission coefficient	12	
T	Temperature	25	C
RS	Diode series resistance	0.3	Ohm
TT	Transit time	70	nS
CJ0	Zero-bias junction capacitance	78.80	pF
VJ	Bulk junction potential	0.73	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	1800	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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