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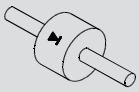
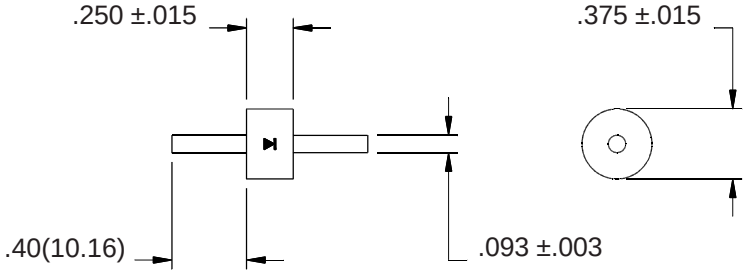
Spice Model

K50UF



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	
	Volts	Amps	Amps	µA	µA	Volts	A	Amps	Amps	ns	°C/W	°C/W	pF
K50UF	5000	2.20	1.10	2.0	100	10.5	2.2	150	35	100	2	4.5	50



Name	Parameter	Value	Units
IS	Reverse leakage current	1.00E-06	Amps
N	Emission coefficient	16	
T	Temperature	25	C
RS	Diode series resistance	0.15	Ohm
TT	Transit time	100	nS
CJ0	Zero-bias junction capacitance	68.46	pF
VJ	Bulk junction potential	4.27	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	6000	Volts
IBV	Diode breakdown current	100	uAmps

Dimensions: In. (mm) * All temperatures are ambient unless otherwise noted. * Data subject to change without notice.

Voltage Multipliers, Inc.
8711 W. Roosevelt Ave.
Visalia, CA 93291

Tel (559) 651-1402
Fax (559) 651-0740
www.voltagemultipliers.com