

Spice Model

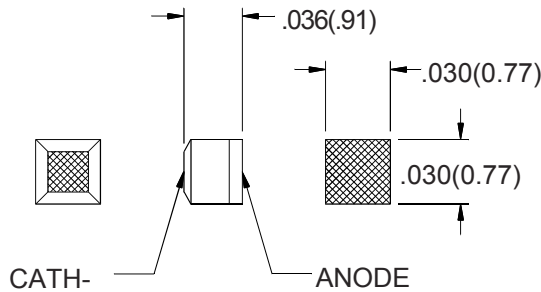


D30U18R



Electrical Characteristics and Maximum Ratings

Part Number	Working Reverse Voltage (V _{rw})	Average Rectified Current (I _o)		Reverse Current @ V _{rw} (I _r)		Forward Voltage (V _f)		1 Cycle Surge Current t _p =8.3ms (I _{fsm})	Repetitive Surge Current (I _{frm})	Reverse Recovery Time (3) (T _{rr})	Thermal Impedance θ _{J-L}	Junction Cap. @50VDC @ 1kHz (C _j)
		55°C(1)	100°C(2)	25°C	100°C	25°C						
		Amps	Amps	µA	µA	Volts	A					
D30U18R	1800	0.050	0.025	.25	10	8.0	0.10	1.0	0.2	70	10	35



Plating:
50µin silver over 50µin nickel.

Name	Parameter	Value	Units
IS	Reverse leakage current	1.0E-07	Amps
N	Emission coefficient	20	
T	Temperature	25	C
RS	Diode series resistance	2.8	Ohm
TT	Transit time	70	nS
CJ0	Zero-bias junction capacitance	2.39	pF
VJ	Bulk junction potential	1.23	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	2200	Volts
IBV	Diode breakdown current	50	uAmp

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