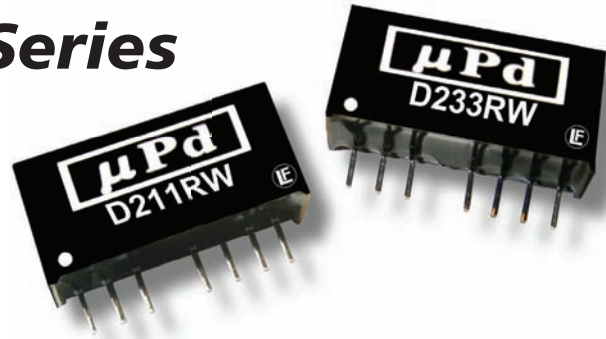


D200RW Series

Miniature SIP, 2W Wide Input Range DC/DC Converters



Key Features:

- 2W Output Power
- 2:1 Input Voltage Range
- 1,000 VDC Isolation
- Short Circuit Protected
- Miniature SIP Case
- Single & Dual Outputs
- 2.7 MH MTBF
- Industry Standard Pin-Out



RoHS Compliant

MicroPower Direct

292 Page Street
Suite D
Stoughton, MA 02072
USA

T: (781) 344-8226
F: (781) 344-8481
E: sales@micropowdirect.com
W: www.micropowdirect.com



Electrical Specifications

Specifications typical @ +25°C, nominal input voltage & rated output current, unless otherwise noted. Specifications subject to change without notice.

Input

Parameter	Conditions	Min.	Typ.	Max.	Units
Input Voltage Range	5 VDC Input	4.5	5.0	9.0	VDC
	12 VDC Input	9.0	12.0	18.0	
	24 VDC Input	18.0	24.0	36.0	
	48 VDC Input	36.0	48.0	72.0	
Input Filter	Capacitor Filter				
Input Reflected Ripple Current			35		mA P - P
Reverse Polarity Input Current				1.0	A
Short Circuit Input Power				1,500	mW

Output

Parameter	Conditions	Min.	Typ.	Max.	Units
Output Voltage Accuracy			±2.0		%
Output Voltage Balance				±2.0	%
Line Regulation	Vin = Min to Max			±0.5	%
Load Regulation	Iout = 25% to 100%			±1.0	%
Ripple & Noise (20 MHz)				80	mV P - P
Output Power Protection		120			%
Temperature Coefficient				±0.02	%/°C
Output Short Circuit	Continuous (Autorecovery)				

General

Parameter	Conditions	Min.	Typ.	Max.	Units
Isolation Voltage	60 Seconds	1,000			VDC
Isolation Resistance	1,000 VDC	1,000			MΩ
Isolation Capacitance	100 kHz, 1V		60		pF
Switching Frequency		100		650	kHz

Environmental

Parameter	Conditions	Min.	Typ.	Max.	Units
Operating Temperature Range	Ambient	-40	+25	+85	°C
Operating Temperature Range	Case			+100	°C
Storage Temperature Range		-40		+125	°C
Cooling	Free Air Convection				
Humidity	RH, Non-condensing			95	%

Physical

Case Size	0.86 x 0.36 x 0.44 Inches (21.89 x 9.2 x 11.2 mm)				
Case Material	Non-Conductive Black Plastic (UL94-V0)				
Weight	0.17 Oz (4.8g)				

Remote On/Off

Parameter	Conditions	Min.	Typ.	Max.	Units
Unit On (Note 2)		0		0.8	VDC
Unit Off (Note 2)				5.0	VDC
Off Idle Current			5.0		mA

Reliability Specifications

Parameter	Conditions	Min.	Typ.	Max.	Units
MTBF	MIL HDBK 217F, 25°C, Gnd Benign	2.73			MHours

Absolute Maximum Ratings

Parameter	Conditions	Min.	Typ.	Max.	Units
Input Voltage Surge (1 Sec)	5 VDC Input	-0.7		12.0	VDC
	12 VDC Input	-0.7		24.0	
	24 VDC Input	-0.7		40.0	
	48 VDC Input	-0.7		80.0	
Lead Temperature	1.5 mm From Case For 10 Sec			260	°C
Internal Power Dissipation	All Models			1,800	mW

Caution: Exceeding Absolute Maximum Ratings may damage the module. These are not continuous operating ratings.

