FEATURES：

- Wide input range
- Continuous short-circuit protection,self recover
- I/O isolation voltage 1.5KV
- Working temperature：-40℃～+85℃
- No additional components required
- Stable performance and high reliability (MTBF≥1000K hours)
- Industry standard pin-out
- Metal case
- DIP package

Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Norminal（Vdc）	Range（Vdc）	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
URB2405LD-40WR3	24	9-36	5	400	8000	91	15000
URB2412LD-40WR3			12	166	3333	92	3000
URB2415LD-40WR3			15	133	2666	93	2200
URB2424LD-40WR3			24	83	1666	92	1300
URB4805LD-40WR3	48	18-72	5	400	8000	91	15000
URB4812LD-40WR3			12	166	3333	92	3000
URB4815LD-40WR3			15	133	2666	93	2200
URB4824LD-40WR3			24	83	1666	92	1300
URB1D05LD-40WR3	110	40-160	5	400	8000	91	15000
URB1D12LD-40WR3			12	166	3333	92	3000
URB1D15LD-40WR3			15	133	2666	93	2200
URB1D24LD-40WR3			24	83	1666	92	1300

customized accepted ,pls contact sales for details

Input Specifications

	Input Voltage Range（Vdc）	Nom(Vdc)	Max（Vdc）
Input Voltage	9-36	24	36
	18-72	48	72
	40-160	110	160
Hot Plug	Unavailable		

Output Specifications

Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	-	100mVp-p	20MHz bandwidth, 5%-100% load
Transient Recovery Time	300μs	500μs	25% load step change, Nominal input voltage

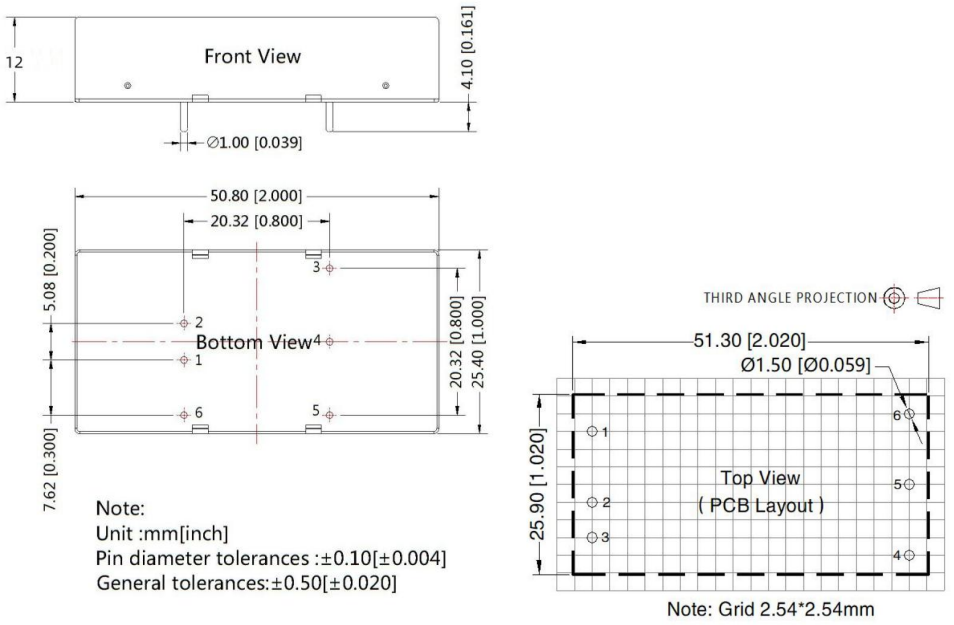
Over-voltage Protection	-	160%Vo	110%Vo(Min)
Over-current Protection	140%Io	190%Io	110%Io(Min)
Short-circuit Protection			Continuous, self-recovery

Gerneral Specifications

Switching Frequency	300KHz(Typ)	PWM mode
MTBF	1000 K hours	MIL-HDBK-217F@25℃
Temperature Coefficient	0.03%/℃	100% full load
Isolation（Input-Output）	1.5KVDC	
Insulation Resistance	1000MΩ	Input-output resistance 500Vdc
Operating Temperature	-40～+85℃	
Storage Temperature	-55～+125℃	
Storage Humidity	5-95%	Non-condensing
Cooling Method	Free air convection	
Case Material	Aluminum alloy	
Weight	60g（Typ）	

**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25℃ room temperature environment.

Dimensions and Recommended Layout



Pins

Pin	Single		
1	CTRL		
2	GND		
3	Vin		
4	+Vo		
5	0V		
6	TRIM		

Recommended Circuit

Vout (VDC)	Cin (μF)	Cout (μF)
5	100μF/50V	220uF/16V
12/15		100μF/50V
24		47μF/50V

Noted

1. Input current: Ensure that the output current of the power supply meets the instantaneous starting current of the power module (that is, twice the average input current of the power module).
2. Output load requirements: Avoid no-load use. When the actual power consumption of the load is less than 10% of the rated output power of the module or no load occurs, connect an external resistance to the output end (the sum of the external resistance and the load power is greater than or equal to 10% of the rated load) or select a module with a smaller rated power.
3. The external capacitance of the output end should not be too large; otherwise, the module may be overcurrent or poorly started. For details, see the external capacitance recommendation table.
4. External LC filter circuit can be connected for occasions with high ripple noise requirements.