

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature:  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- No additional components required
- Stable performance and high reliability (MTBF $\geq$ 1000K hours)
- Industry standard pin-out
- Flame-retardant case to meet UL94-V0 requirements
- DIP package



Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad( $\mu\text{F}$ )		
	Normalal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)			
LD15-12S05B	12	9-18	5	2400					
LD15-12S12B			12	1200					
LD15-12S15B			15	1000					
LD15-12S18B			18	833					
LD15-12S24B			24	630					
LD15-12S28B			28	536					
LD15-12S48B			48	313					
LD15-12D12B			+12	625	-12	625			
LD15-12D15B			+15	500	-15	500			
LD15-12D24B			+24	310	-24	310			
LD15-18S05B			18	9-36	5	2400			
LD15-18S12B					12	1200			
LD15-18S15B					15	1000			
LD15-18S18B					18	833			
LD15-18S24B	24	630							
LD15-18S28B	28	536							
LD15-18S48B	48	313							
LD15-18D12B	+12	625			-12	625			
LD15-18D15B	+15	500			-15	500			
LD15-18D24B	+24	310			-24	310			
LD15-24S05B	24	9-36			5	2400			
LD15-24S12B					12	1200			
LD15-24S15B					15	1000			
LD15-24S18B					18	833			
LD15-24S19B			19	789					
LD15-24S24B			24	630					
LD15-24S28B			28	536					
LD15-24S48B			48	313					

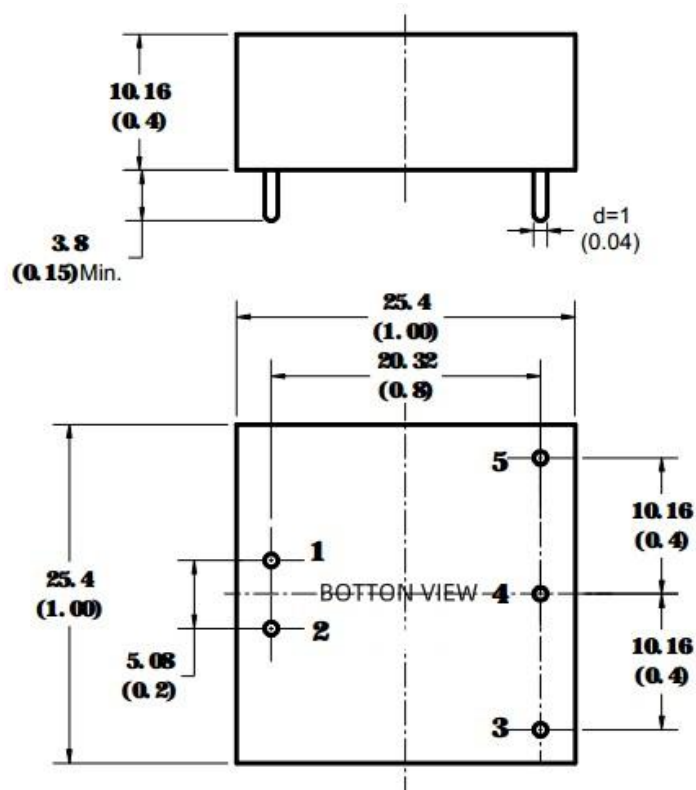
LD15-24D12B	24	18-36	+12	625	-12	625	
LD15-24D15B			+15	500	-15	500	
LD15-24D24B			+24	310	-24	310	
LD15-36S05B			5	3000			
LD15-36S12B			12	1200			
LD15-36S15B			15	1000			
LD15-36S18B			18	833			
LD15-36S24B			24	630			
LD15-36S28B			28	536			
LD15-36S48B			48	313			
LD15-36D12B			+12	625	-12	625	
LD15-36D15B			+15	500	-15	500	
LD15-36D24B			+24	310	-24	310	
LD15-48S05B			5V	3000			
LD15-48S12B			12	1200			
LD15-48S15B			15	1000			
LD15-48S18B	18	833					
LD15-48S24B	36	18-72	24	630			
LD15-48S28B			28	536			
LD15-48S48B			48	313			
LD15-48D12B			+12	625	-12	625	
LD15-48D15B			+15	500	-15	500	
LD15-48D24B			+24	310	-24	310	
LD15-110S12B			12	1200			
LD15-110S15B			15	1000			
LD15-110S18B			18	833			
LD15-110S24B			24	630			
LD15-110S28B			28	536			
LD15-110S48B			48	313			
LD15-110D12B			+12	625	-12	625	
LD15-110D15B			+15	500	-15	500	
LD15-110D24B			+24	310	-24	310	

\*\*customized accepted ,pls contact sales for details\*\*

### Input Specifications

Input Voltage	Input Voltage Range (Vdc)	Nom(Vdc)	Max (Vdc)
		9-18	12
	9-36	18	36
	18-36	24	36
	18-72	36	72
	36-72	48	72
	72-144	110	144

Hot Plug	Unavailable		
<b>Output Specifications</b>			
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
<b>General Specifications</b>			
Switching Frequency	300KHz(Typ)		PWM mode
MTBF	1000 K hours		MIL-HDBK-217F@25°C
Temperature Coefficient	0.03%/°C		100% full load
Isolation (Input-Output)	1.5KVDC		
Insulation Resistance	1000MΩ		Input-output resistance 500Vdc
Operating Temperature	-40~+85°C		
Storage Temperature	-55~+125°C		
Storage Humidity	5-95%		Non-condensing
Cooling Method	Free air convection		
Case Material	Aluminum alloy		
Weight	12g (Typ)		
**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25°C room temperature environment.			
<b>Dimensions and Recommended Layout</b>			

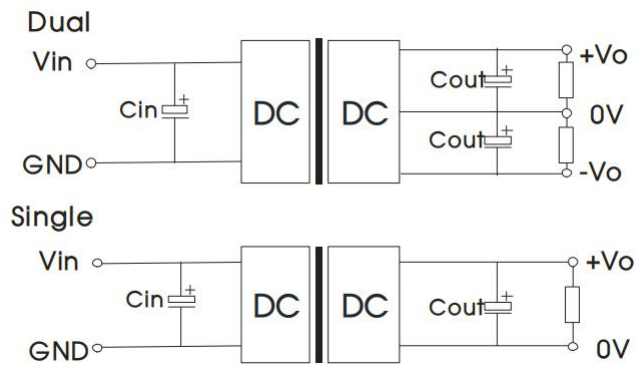


Note:  
Unit: mm[inch]  
Pin diameter tolerances:  $\pm 0.10[\pm 0.004]$   
General tolerances:  $\pm 0.50[\pm 0.020]$

### Pins

Pin	Single	Dual	
1	+Vin	+Vin	
2	-Vin	-Vin	
3	GND	-Vo2	
4	No Pin	COM	
5	Vo1	+Vo1	

### Recommended Circuit



### Recommended input and output capacitor values

Vin	Cin	Cout		
5	100uF/16V			
12	100uF/25V			
24	10uF/50V-47uF/50V			
48	10uF/100V-47uF/100V			

**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.