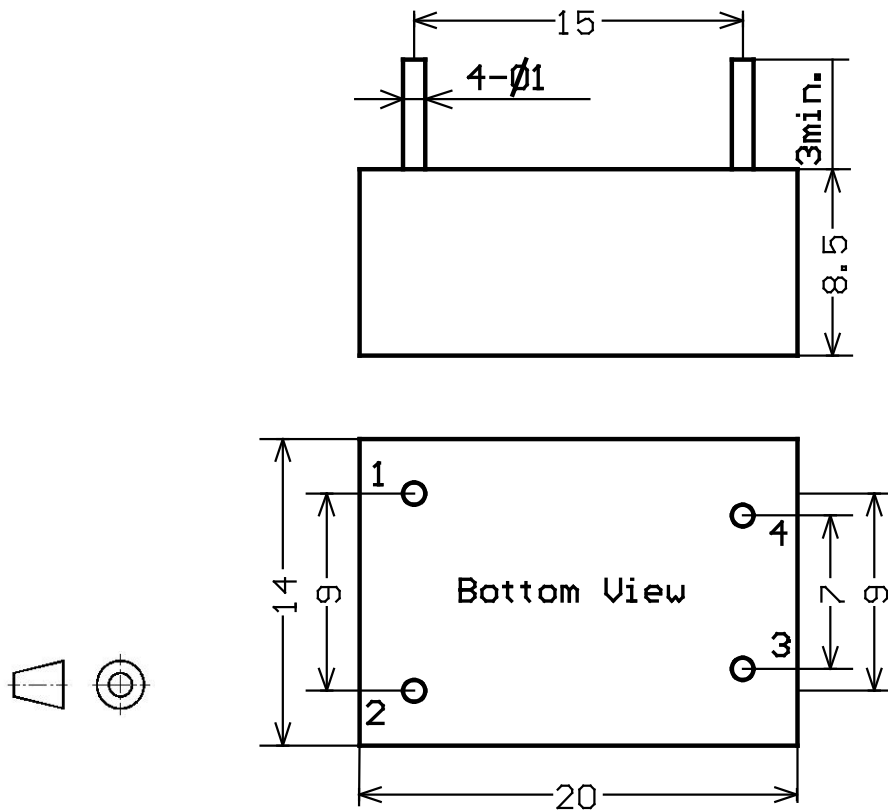


Features

- ◆ 20mm×14mm×8.5mm
- ◆ Input voltage range: 0 – 200 Vdc,
10-180Vdc work
- ◆ Transient protection 36Vdc max.
- ◆ 1500Vdc Input / Output to Base / FG
- ◆ –40°C to +100°C baseplate operation

Outline



Pin	Symbol	Function	Pin	Symbol	Function	Notes
1	+Vin	Input voltage positive	3	-Vo	Output voltage negative	Case material: Aluminium alloy; Pins material: Copper, tin-cerium plating; Units: mm(inches) ; Tolerance: X.X±0.5,(X.XX±0.02) X.XX±0.25(X.XXX±0.010)
2	-Vin	Input voltage negative	4	+Vo	Output voltage positive	

Specifications

Unless otherwise specified, all values are given at: 25°C, one standard atmosphere pressure, basic connection.

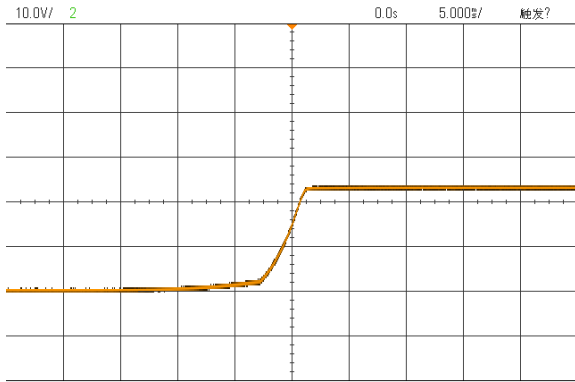
Input Specifications	Min	Typ	Max	Unit	Notes
Recommend input voltage range	10	28	36	Vdc	Continuous
Absolute input voltage range	-0.7	—	200	Vdc	<i>With 36W max. limit:</i> 200V:70 μs 80V:50ms 50V:100ms 36V: Continuous
External input capacitance	10		100	μF	36W limit

Output Specifications	Min	Typ	Max	Unit	Notes
Output voltage range	9.5	27.5	36	Vdc	Clamping voltage 35.5V
Clamping voltage accuracy	34.5	35.5	36.5	Vdc	—
Internal voltage drop	0	0.2	0.5	Vdc	—
Output current	0	—	1	A	36W max.limit 1A: Continuous
Output capacitance	0	—	470	μF	36W limit
Noise and ripples	0	—	20	mV	1A, Pure resistance load, 20MHz band limit

General Specifications	Min	Typ	Max	Unit	Notes
Efficiency	—	98	—	%	Full load
Dielectric withstand	1500	—	—	Vdc	Input/output to case
Case Temperature	-55	—	100	°C	—
Storage Temperature	-55	—	125	°C	—
Relative Humidity	10	—	90	%RH	—
Manual Soldering	—	—	425	°C	5s max
Wave Soldering	—	—	260	°C	10s max

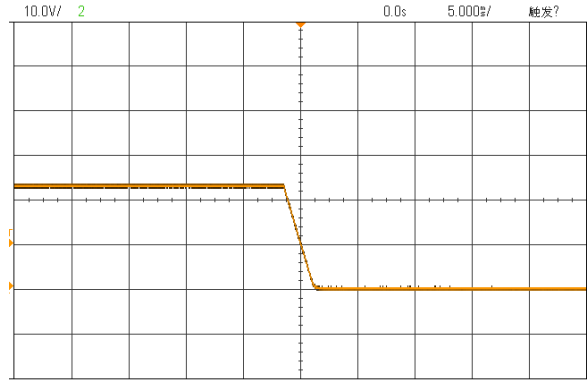
Characteristic Curves

Start-up



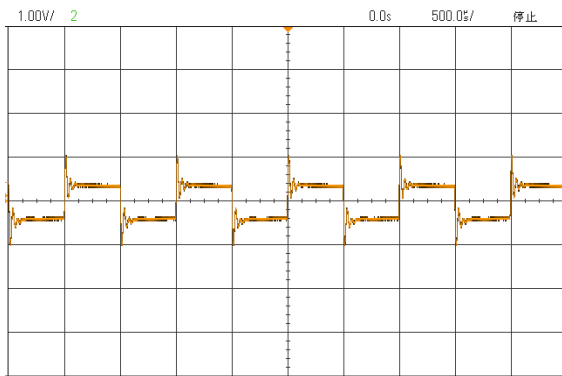
24V in, 1A output with 10µF input capacitance and 470µF output capacitance

Turn-off



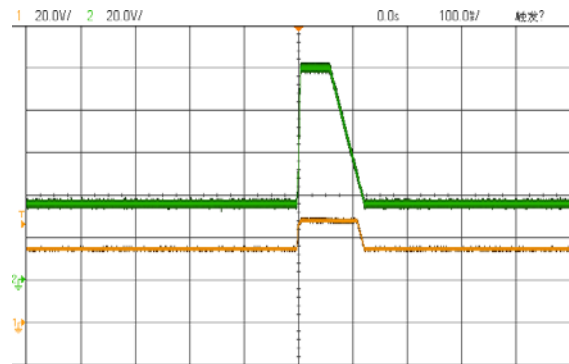
24V in, 1A output with 10µF input capacitance and 470µF output capacitance

Load Transient Response



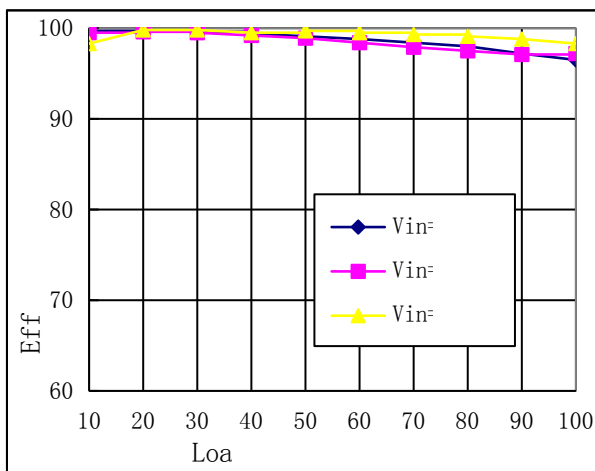
24V in, 0A-1A -0A change 1A/µs

Transient protect



80V pulse

Efficiency Curve



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