

## MA SERIES P6AU-XXXXE 1KV ISOLATED 1W UNREGULATED SINGLE OUTPUT SIP4

### Available Inputs:

5, 12 and 24 VDC

### Available Outputs:

3.3, 5, 7.2, 12, 15 and 18 VDC

Other specifications please enquire.

### Electrical Specifications

(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

#### Input Specifications

Voltage range

+/- 10 %

Filter

Capacitors

#### Isolation Specifications

Rated voltage

1000 VDC

Leakage current

1 mA

Resistance

10<sup>9</sup> Ohm

Capacitance

60 pF typ.

#### Output Specifications

Voltage accuracy

+/- 5 %, max.

Ripple and noise (at 20 MHz BW)

100 mV p-p, max.

Short circuit protection

Momentary

Line voltage regulation

+/- 1,2 % / 1,0 % of Vin

Load voltage regulation

+/- 8 %, load = 20 ~ 100 %

Temperature coefficient

+/- 0,02 % / °C

#### General Specifications

Efficiency

75 % to 85 %

Switching frequency

80 KHz, typ.

#### Environmental Specifications

Operating temperature (ambient)

- 40° C to + 85° C

Storage temperature

- 55 °C to + 125 °C

Derating

See graph

Humidity

Up to 90 %, non condensing

Cooling

Free air convection

#### Physical Characteristics

Dimensions SIP

11,68 x 6,00 x 10,16 mm

0,46 x 0,24 x 0,40 inches

Weight

1,8 g

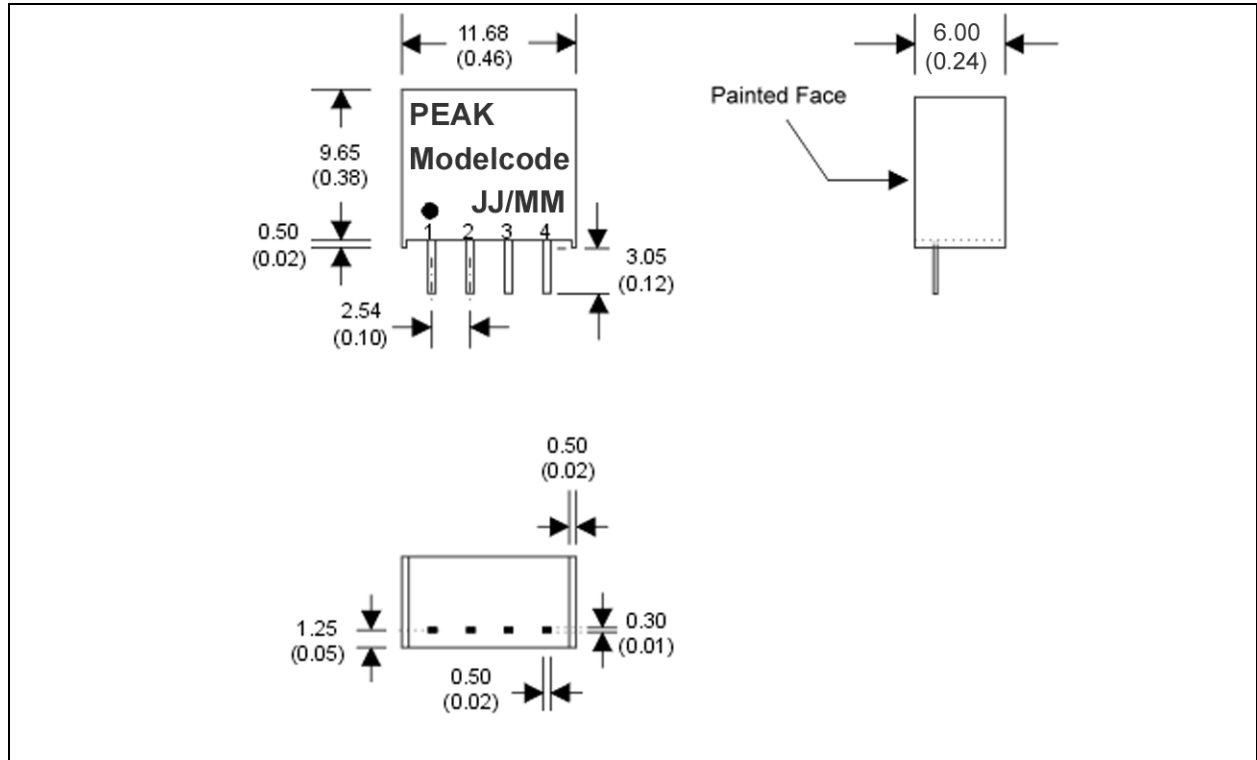
Case material

Non conductive black plastic

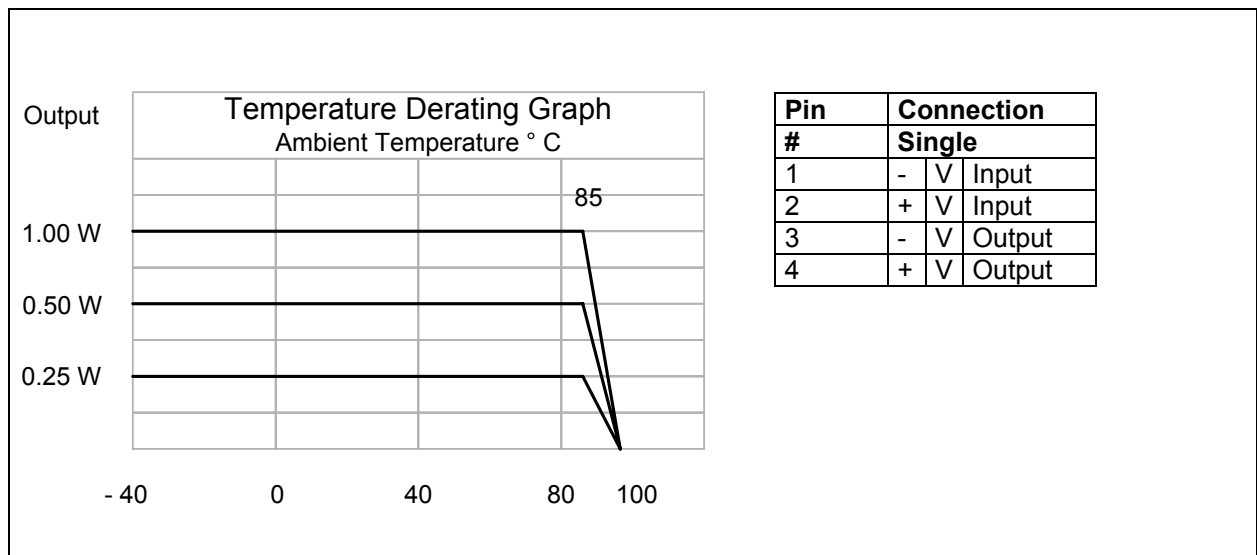
### Examples of Partnumbers

| PART NO.    | INPUT VOLTAGE (VDC) | INPUT CURRENT NO LOAD | INPUT CURRENT FULL LOAD | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (max. mA) | EFFICIENCY FULL LOAD (% TYP.) |
|-------------|---------------------|-----------------------|-------------------------|----------------------|--------------------------|-------------------------------|
| P6AU-053R3E | 5                   | 16                    | 267                     | 3,3                  | 300                      | 74                            |
| P6AU-0505E  | 5                   | 16                    | 253                     | 5                    | 200                      | 79                            |
| P6AU-057R2E | 5                   | 16                    | 255                     | 7,2                  | 140                      | 79                            |
| P6AU-0512E  | 5                   | 16                    | 307                     | 12                   | 100                      | 78                            |
| P6AU-0515E  | 5                   | 20                    | 262                     | 15                   | 70                       | 80                            |
| P6AU-1205E  | 12                  | 14                    | 105                     | 5                    | 200                      | 79                            |
| P6AU-1212E  | 12                  | 14                    | 105                     | 12                   | 100                      | 79                            |
| P6AU-1215E  | 12                  | 13                    | 112                     | 15                   | 70                       | 78                            |
| P6AU-2405E  | 24                  | 8                     | 56                      | 5                    | 200                      | 74                            |
| P6AU-2412E  | 24                  | 7                     | 65                      | 12                   | 100                      | 77                            |
| P6AU-2415E  | 24                  | 8                     | 57                      | 15                   | 70                       | 76                            |

## Dimensions



## Derating Graph and Pinning



Specification can be changed without notice.

Copyright PEAK electronics GmbH