

SMD SERIES PSD-XXXXD 1KV ISOLATED 1W UNREGULATED DUAL OUTPUT SMD

Available Inputs: 5 and 12 VDC

Available Outputs: (+/-) 5, 9, 12 and 15 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
 Resistance 1000 MOhm

Output Specifications

Voltage accuracy +/- 5 %, max.
 Ripple and noise (at 20 MHz BW) 50 mV p-p, max.
 Short circuit protection Momentary
 Line voltage regulation +/- 1,2 % / 1,0 % of Vin
 Load voltage regulation +/- 12 %, load = 20 ~ 100 % max.
 Temperature coefficient +/- 0,02 % / °C

General Specifications

Efficiency 70 - 83 %
 Switching frequency 100 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

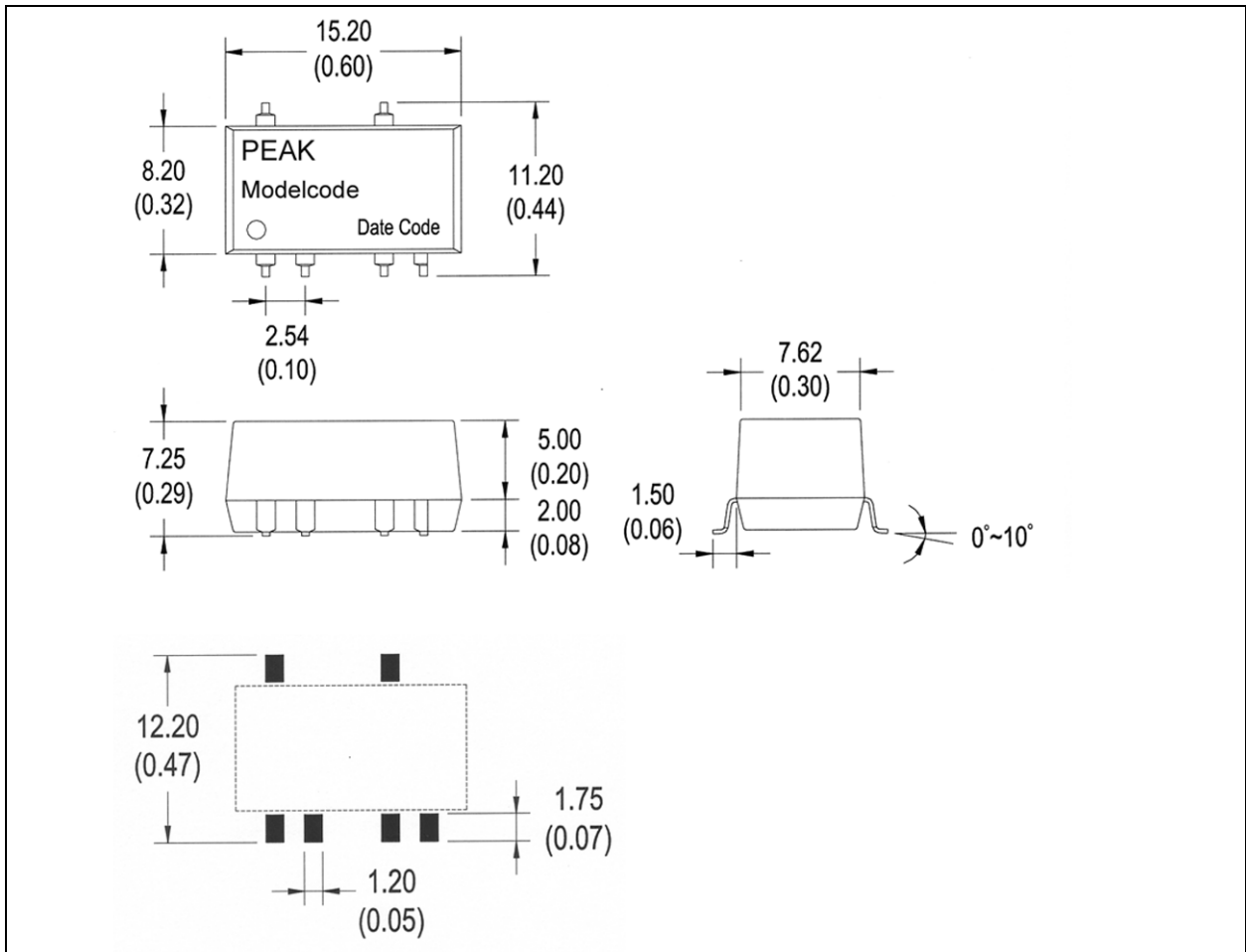
Case material Non conductive black plastic

Lead temp. 1.5 mm from case for 10 sec. +300° C
 Peak reflow temp. with CECC 00802 profile +280° C

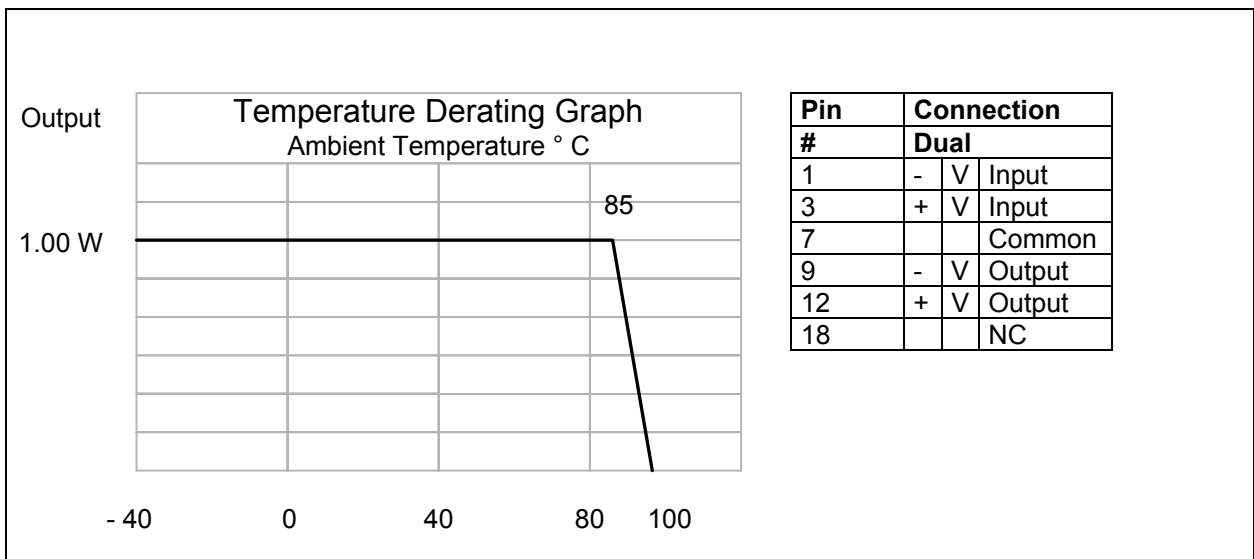
Partnumbers

PART NO.	INPUT VOLTAGE (VDC)	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
PSD-0505D	5	281	+/- 5	+/- 100	71
PSD-0509D	5	256	+/- 9	+/- 56	78
PSD-0512D	5	258	+/- 12	+/- 42	78
PSD-0515D	5	252	+/- 15	+/- 34	81
PSD-1205D	12	114	+/- 5	+/- 100	73
PSD-1209D	12	106	+/- 9	+/- 56	79
PSD-1212D	12	104	+/- 12	+/- 42	81
PSD-1215D	12	103	+/- 15	+/- 34	83

Dimensions



Derating Graph and Pinning



Specification can be changed without notice.

Copyright PEAK electronics GmbH