

# 1FUXXD(S)YYD12S1-1 Series

## 1W, FIXED INPUT, ISOLATED & UNREGULATED SINGLE/DUAL OUTPUT DC-DC CONVERTER

### FEATURES

- 12KVDC Isolation
- DIP Package
- Temperature Range: -40°C ~ +85°C
- No Heat sink Required
- Low isolation capacitance
- Internal SMD Construction
- No External Component Required
- Industry Standard Pinout
- RoHS Compliance

### PRODUCT PROGRAM

Part Number	Input		Output		Efficiency (%) (Typ)
	Voltage (VDC)	range (VDC)	Voltage (VDC)	Current (mA)	
1FU12D12D12S1-1	12	10.8-13.2	±12	±41.6	TBD
1FU12S12D12S1-1	12	10.8-13.2	12	83	TBD

### COMMON SPECIFICATIONS

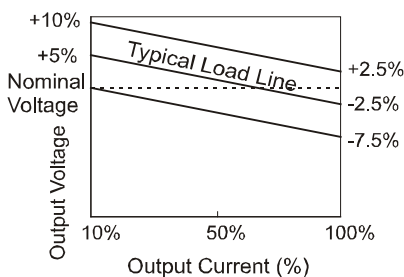
Item	Test Conditions	Min	Typ	Max	Units
Isolation voltage	Tested for 1 minute and 1mA max	12000			VAC
Isolation resistance	Test at 500VDC	1000			MΩ
Ripple & Noise*	20MHz Bandwidth			200	%
Line regulation	For Vin change of 1%			1.5	
Load regulation	10% to 100% load			20	
Storage humidity				95	
Lead temperature	1.5mm from case for 10 seconds			300	°C
Operating temperature		-40		85	
Storage temperature		-55		125	
Short circuit protection		Continuous			
Case material		Plastic(UL94-V0)			
MTBF		1000			k hours

\* Test ripple and noise by "parallel cable" method.

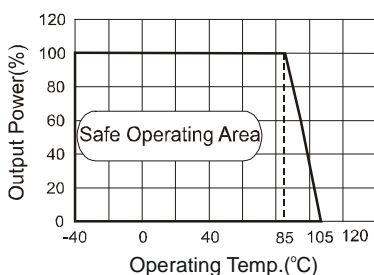
Note: All specifications measured at TA=25°C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.

### TYPICAL CHARACTERISTICS

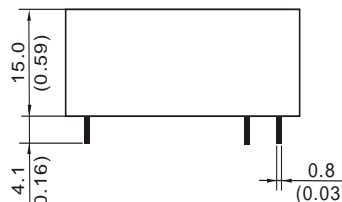
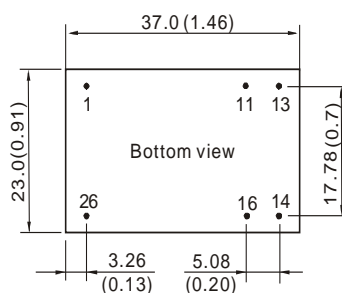
Tolerance Envelope Graph



Temperature Derating Graph



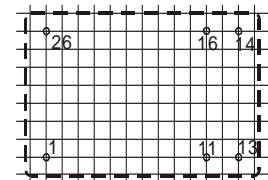
### OUTLINE DIMENSIONS & PIN CONNECTION



Note:  
Unit:mm(inch)  
Tolerance:±0.5mm  
Pin diameter:0.8±0.05mm

First Angle Projection

RECOMMENDED FOOTPRINT  
Top view, grid:2.54mm(0.1inch),  
diameter:1.80mm(0.071inch)



### FOOTPRINT DETAILS

Pin	Single	Dual
1	GND	GND
11	NC	-Vo
13,14	0V	0V
16	+Vo	+Vo
26	Vin	Vin

NC:No connection