



# 27D SERIES

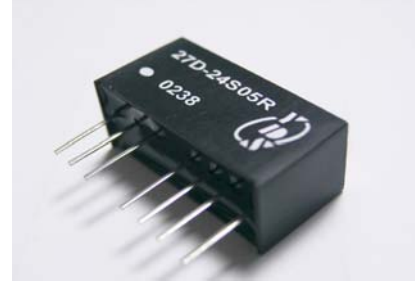
## 2 WATT, SIP 8PIN, SINGLE OUTPUT REGULATED ISOLATION 1000VDC DC-DC CONVERTER

### FEATURES

- 2:1 WIDE INPUT VOLTAGES RANGE
- EFFICIENCY TO 83%
- UL 94V-0 PACKAGE METIERAL
- CONTINUOUS SHORT CIRCIUT PROTECTION WITH CURRENT FOLDBACK
- LOW RIPPLE AND NOISE

### GENERAL SPECIFICATIONS

- RIPPLE & NOISE (VOUT = 5-9V TYPES) : 100mVp-p MAX (20MHz B.W.)
- RIPPLE & NOISE (VOUT = 12-15VTYPES) : 1% OF VOUT
- ISOLATION VOLTAGE : 1KVDC
- SWITHINGFREQUENCY : 50KHZ MIN
- SHORT CIRCUIT PROTECTION : CONTINUOUS
- OPERATING TEMPERATURE : -40°C TO 85°C
- STORAGE TEMPERATURE RANGE : -50°C TO 130°C



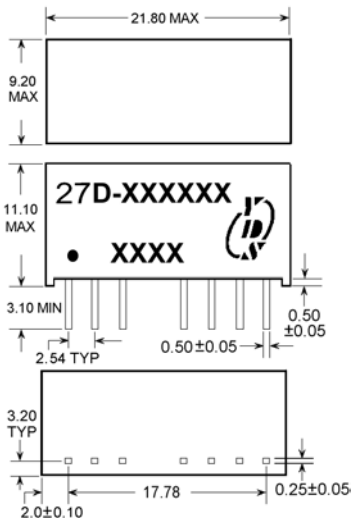
### ELECTRICAL SPECIFICATIONS

- INPUT VOLTAGE RANGE : 2 : 1
- OUTPUT VOLTAGE TOLERANCE : ±3%
- LINE REGULATION (REGULATED) : 0.5% MAX
- LOAD REGULATION (REGULATED) : 0.8% MAX
- EFFICIENCY : UP TO 83%

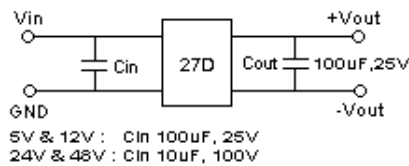
(Typical at nominal input , rated load and 25°C unless otherwise specified)

PART NO.	INPUT VOLTAGE RANGE	OUTPUT VOLTAGE RANGE	OUTPUT CURRENT	EFFICIENCY (%)	MTBF KHrs
27D-05S05R	5-9VDC	5VDC	400mA	66	>1000
27D-05S09R	5-9VDC	9VDC	222mA	71	
27D-05S12R	5-9VDC	12VDC	167mA	71	
27D-05S15R	5-9VDC	15VDC	133mA	73	
27D-12S05R	9-18VDC	5VDC	400mA	73	
27D-12S09R	9-18VDC	9VDC	222mA	79	
27D-12S12R	9-18VDC	12VDC	167mA	80	
27D-12S15R	9-18VDC	15VDC	133mA	81	
27D-24S05R	18-36VDC	5VDC	400mA	74	
27D-24S09R	18-36VDC	9VDC	222mA	81	
27D-24S12R	18-36VDC	12VDC	167mA	81	
27D-24S15R	18-36VDC	15VDC	133mA	83	
27D-48S05R	36-72VDC	5VDC	400mA	73	
27D-48S09R	36-72VDC	9VDC	222mA	80	
27D-48S12R	36-72VDC	12VDC	167mA	81	
27D-48S15R	36-72VDC	15VDC	133mA	82	

### MARKINGS AND DIMENSIONS



### RECOMMENDED TEST CIRCUIT



### PIN CONNECTION

PIN	SINGLE OUTPUT
1	-INPUT
2	+INPUT
3	CTRL- Control input can (can be left open)
4	NO PIN
5	NE- No external connection allowed
6	+OUTPUT
7	-OUTPUT
8	CS Optional external capacitor

Dimensions: inches/mm

Unless otherwise specified, all tolerances are ±.005/±