

2W DUAL OUTPUT DC-DC CONVERTER

Туре	V _{in}	V _{out}	l _{out}
GS2T5-D5	5 V	±5 V	±200 mA

DESCRIPTION

The GS2T5-D5 is a 2W DC-DC converter designed to provide an isolated +5V/200mA and -5V/200mA power source.

The module operates from a 5V input source and offers 2500Vdc isolation.

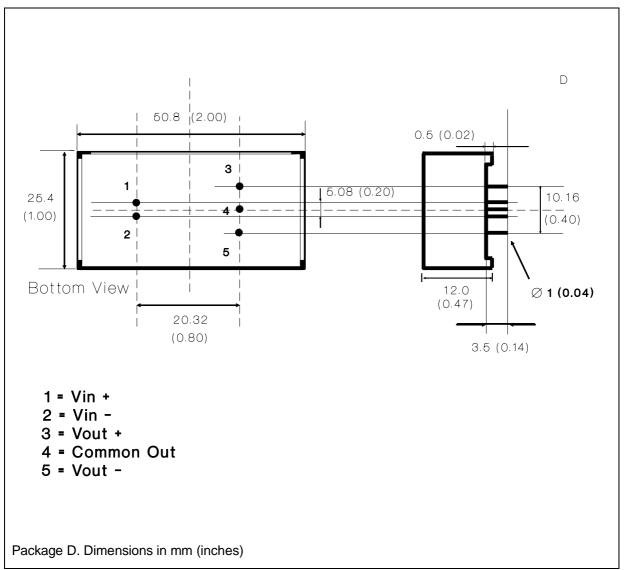


ELECTRICAL CHARACTERISTICS (T_{amb.}= 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
Vi	Input Voltage	V ₀ 1= +5V	4.75	5.00	5.25	V
lir	Input Reflected Current	V _i = 4.75 to 5.25V Full Load		25	40	mApp
Vo1	Output Voltage 1	V _i = 4.75 to 5.25V I ₀₁ = 0 to 200mA	4.75	5.00	5.25	٧
Vo2	Output Voltage 2	V _i = 4.75 to 5.25V lo2 = 0 to -200mA	-4.75	-5.00	-5.25	V
Vor1	Output Ripple Voltage 1	V _i = 4.75 to 5.25 I ₀₁ = 200mA			20	mVrms
Vor2	Output Ripple Voltage 2	V _i = 4.75 to 5.25 lo2 = -200mA			20	mVrms
lo1	Output Current 1	Vi = 4.75 to 5.25V Vo1 = 5V	0		200	mA
l _{o2}	Output Current 2	Vi = 4.75 to 5.25V Vo2 = -5V	0		-200	mA
Vis	Isolation Voltage		2500			Vdc
f _S	Switching Frequency	V _i = 5V Full Load		20		kHz
η	Efficiency	Vi= 5V Full Load	55	62		%
Тор	Operating Ambient Temperature Range		0		+55	°C
Tstg	Storage Temperature Range		-40		+85	°C

December 1993 1/2

CONNECTION DIAGRAM AND MECHANICAL DATA



Information furnished is believed to be accurate and reliable. However, SGS-THOMSON Microelectronics assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of SGS-THOMSON Microelectronics. Specification mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied. SGS-THOMSON Microelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of SGS-THOMSON Microelectronics.

© 1994 SGS-THOMSON Microelectronics - All Rights Reserved

SGS-THOMSON Microelectronics GROUP OF COMPANIES

Australia - Brazil - France - Germany - Hong Kong - Italy - Japan - Korea - Malaysia - Malta - Morocco - The Netherlands - Singapore - Spain - Sweden - Switzerland - Taiwan - Thailand - United Kingdom - U.S.A.

