

2W DUAL OUTPUT DC-DC CONVERTER

| Type | V _{in} | V _{out} | I _{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.

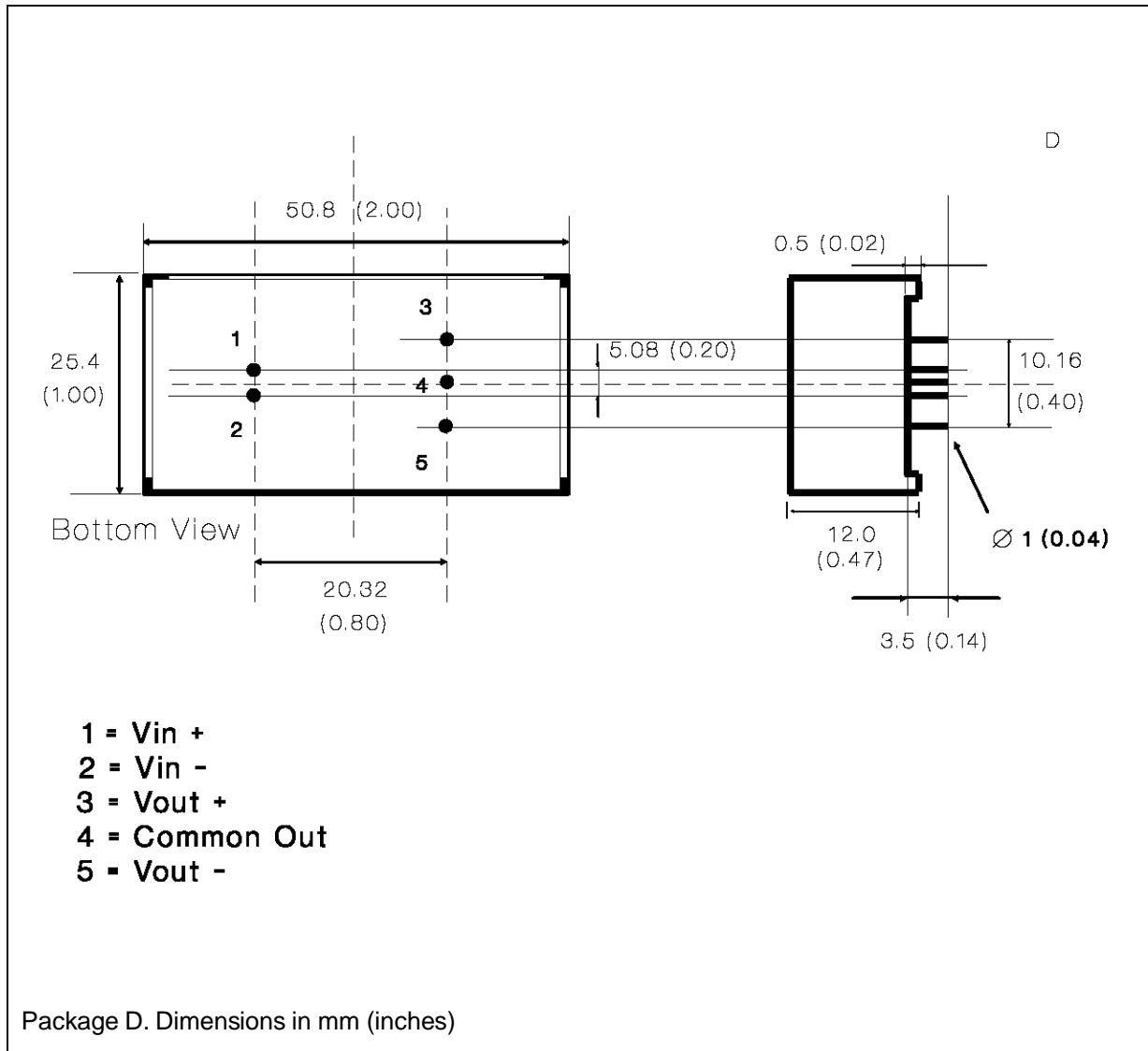
The module operates from a 5V input source and offers 2500Vdc isolation.



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

| Symbol | Parameter | Test Conditions | Min | Typ | Max | Unit |
|------------------|-------------------------------------|---|-------|-------|-------|-------|
| V _i | Input Voltage | V _{o1} = +5V V _{o2} = -5V I _{o1} = 0 to 200mA I _{o2} = 0 to -200mA | 4.75 | 5.00 | 5.25 | V |
| I _{ir} | Input Reflected Current | V _i = 4.75 to 5.25V Full Load | | 25 | 40 | mApp |
| V _{o1} | Output Voltage 1 | V _i = 4.75 to 5.25V I _{o1} = 0 to 200mA | 4.75 | 5.00 | 5.25 | V |
| V _{o2} | Output Voltage 2 | V _i = 4.75 to 5.25V I _{o2} = 0 to -200mA | -4.75 | -5.00 | -5.25 | V |
| V _{or1} | Output Ripple Voltage 1 | V _i = 4.75 to 5.25 I _{o1} = 200mA | | | 20 | mVrms |
| V _{or2} | Output Ripple Voltage 2 | V _i = 4.75 to 5.25 I _{o2} = -200mA | | | 20 | mVrms |
| I _{o1} | Output Current 1 | V _i = 4.75 to 5.25V V _{o1} = 5V | 0 | | 200 | mA |
| I _{o2} | Output Current 2 | V _i = 4.75 to 5.25V V _{o2} = -5V | 0 | | -200 | mA |
| V _{is} | Isolation Voltage | | 2500 | | | Vdc |
| f _s | Switching Frequency | V _i = 5V Full Load | | 20 | | kHz |
| η | Efficiency | V _i = 5V Full Load | 55 | 62 | | % |
| T _{op} | Operating Ambient Temperature Range | | 0 | | +55 | °C |
| T _{stg} | Storage Temperature Range | | -40 | | +85 | °C |

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.