

## 3 W DC-DC CONVERTER

Type	V <sub>i</sub>	V <sub>o</sub>	I <sub>o</sub>
GS3T5-3.3	5 V	3,3 V	750 mA

### DESCRIPTION

The GS3T5-3.3 is a 2.5W DC-DC converter designed to provide an isolated 3.3V/750mA power source.

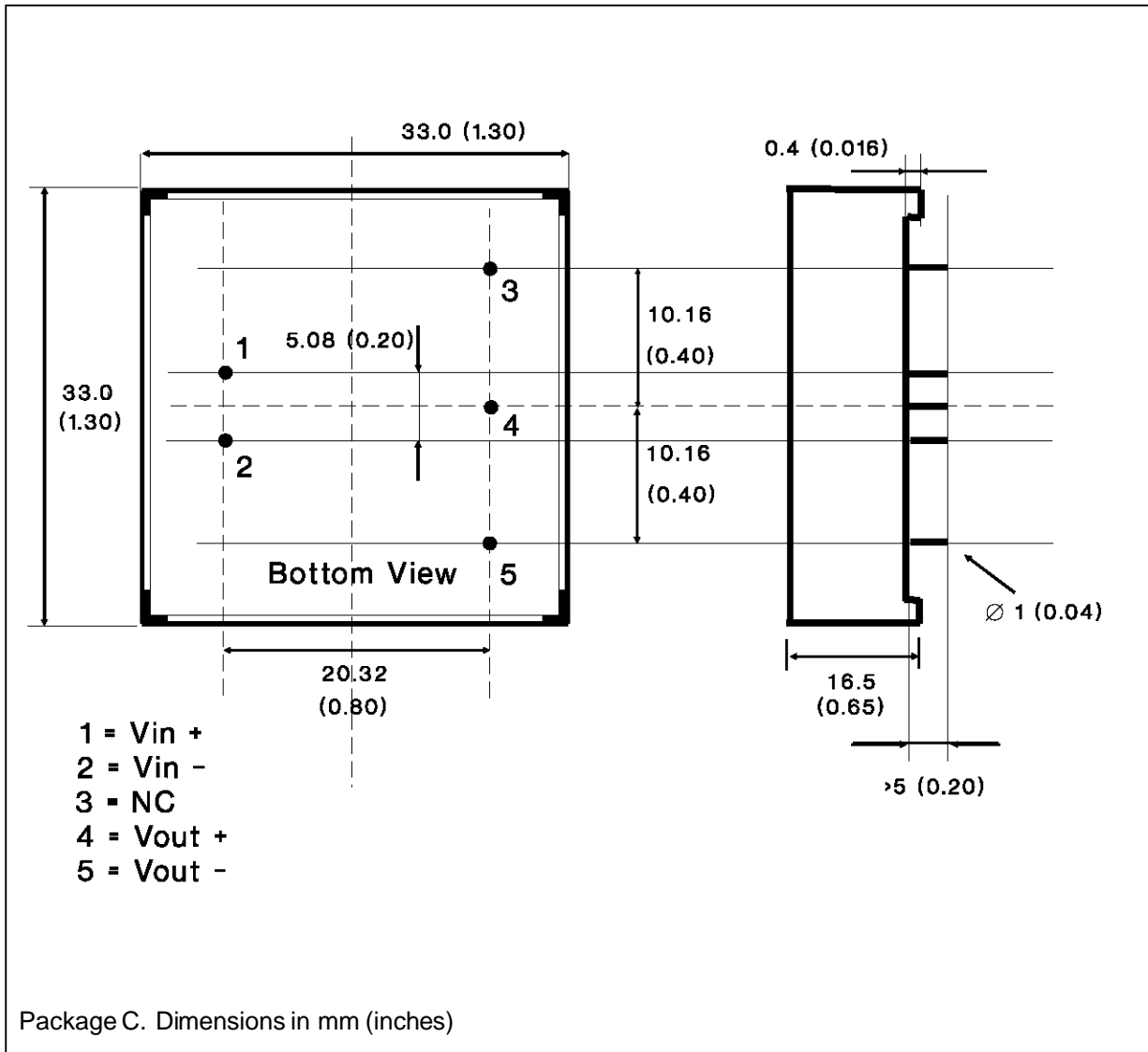
The module operates from a 5V input source and features continuous short-circuit protection.



### ELECTRICAL CHARACTERISTICS (T<sub>amb.</sub> = 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V <sub>i</sub>	Input Voltage	V <sub>o</sub> = 3.3V I <sub>o</sub> = 0 to 750mA	4.75	5.00	5.25	V
I <sub>ir</sub>	Reflected Input Current	V <sub>i</sub> = 5V V <sub>o</sub> = 3.3V I <sub>o</sub> = 750mA		25	50	mApp
V <sub>o</sub>	Output Voltage	V <sub>i</sub> = 4.75 to 5.25V I <sub>o</sub> = 0 to 750mA	3.2	3.3	3.4	V
V <sub>or</sub>	Output Ripple Voltage	V <sub>i</sub> = 5V I <sub>o</sub> = 750mA		7	15	mVRMS
δVOL	Line Regulation	V <sub>i</sub> = 4.75 to 5.25V I <sub>o</sub> = 750mA		2	10	mV
δVOO	Load Regulation	V <sub>i</sub> = 5V I <sub>o</sub> = 50 to 750mA		20	50	mV
I <sub>o</sub>	Output Current	V <sub>i</sub> = 4.75 to 5.25V V <sub>o</sub> = 3.3V	0		750	mA
I <sub>osc</sub>	Output Short-circuit Current	V <sub>i</sub> = 5V		1200	1500	mA
V <sub>is</sub>	Isolation Voltage		750			VDC
f <sub>s</sub>	Switching Frequency	V <sub>i</sub> = 5V I <sub>o</sub> = 750mA		70		kHz
η	Efficiency	V <sub>i</sub> = 5V I <sub>o</sub> = 750mA	70	75		%
T <sub>op</sub>	Operating Ambient Temperature Range		0		+70	°C
T <sub>stg</sub>	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 - China - France - Germany - Hong Kong - Italy - Japan - Korea - Malaysia - Malta - Morocco - The Netherlands - Singapore - Spain - Sweden - Switzerland - Taiwan - Thailand - United Kingdom - U.S.A.