

3 W DC-DC CONVERTER FOR ECL

Type	V_i	V_o	I_o
GS3T5-5.2	5 V	5,2 V	600 mA

DESCRIPTION

The GS3T5-5.2 is a 3.12W DC-DC converter designed to provide an isolated 5.2V/600mA power source.

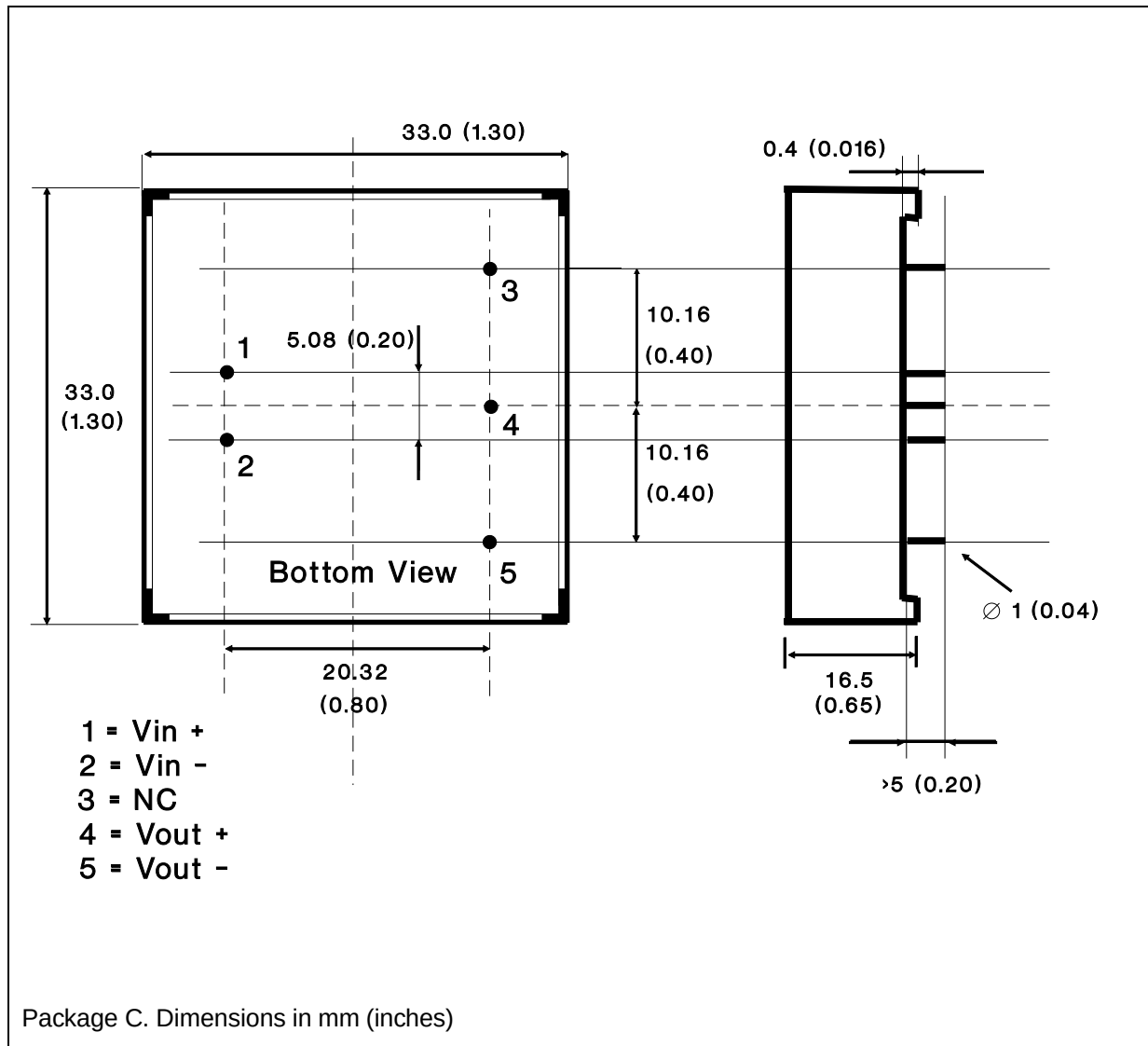
The module operates from a 5V input source and features continuous short-circuit protection.



ELECTRICAL CHARACTERISTICS ($T_{amb.} = 25^{\circ}C$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V_i	Input Voltage	$V_o = 5.2V$ $I_o = 0$ to 600mA	4.75	5.00	5.25	V
I_{ir}	Reflected Input Current	$V_i = 5V$ $V_o = 5.2V$ $I_o = 600mA$		25	50	mApp
V_o	Output Voltage	$V_i = 4.75$ to 5.25V $I_o = 0$ to 600mA	5.04	5.20	5.36	V
V_{or}	Output Ripple Voltage	$V_i = 5V$ $I_o = 600mA$		5	15	mVRMS
V_{orn}	Total Output Ripple and Noise Voltage	$V_i = 5V$ $I_o = 600mA$			70	mVpp
δV_{OL}	Line Regulation	$V_i = 4.75$ to 5.25V $I_o = 600mA$		2	10	mV
δV_{OO}	Load Regulation	$V_i = 5V$ $I_o = 50$ to 600mA		10	15	mV
I_o	Output Current	$V_i = 4.75$ to 5.25V $V_o = 5.2V$	0		600	mA
I_{osc}	Output Short-circuit Current	$V_i = 5V$		900	1500	mA
V_{is}	Isolation Voltage		750			VDC
f_s	Switching Frequency	$V_i = 5V$ $I_o = 600mA$		70		kHz
η	Efficiency	$V_i = 5V$ $I_o = 600mA$	70	75		%
T_{op}	Operating Ambient Temperature Range	Still Air	0		+60	$^{\circ}C$
T_{op}	Operating Ambient Temperature Range	Forced Ventilation, air speed = 100 LFM	0		+70	$^{\circ}C$
T_{stg}	Storage Temperature Range		- 40		+85	$^{\circ}C$

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.