

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.

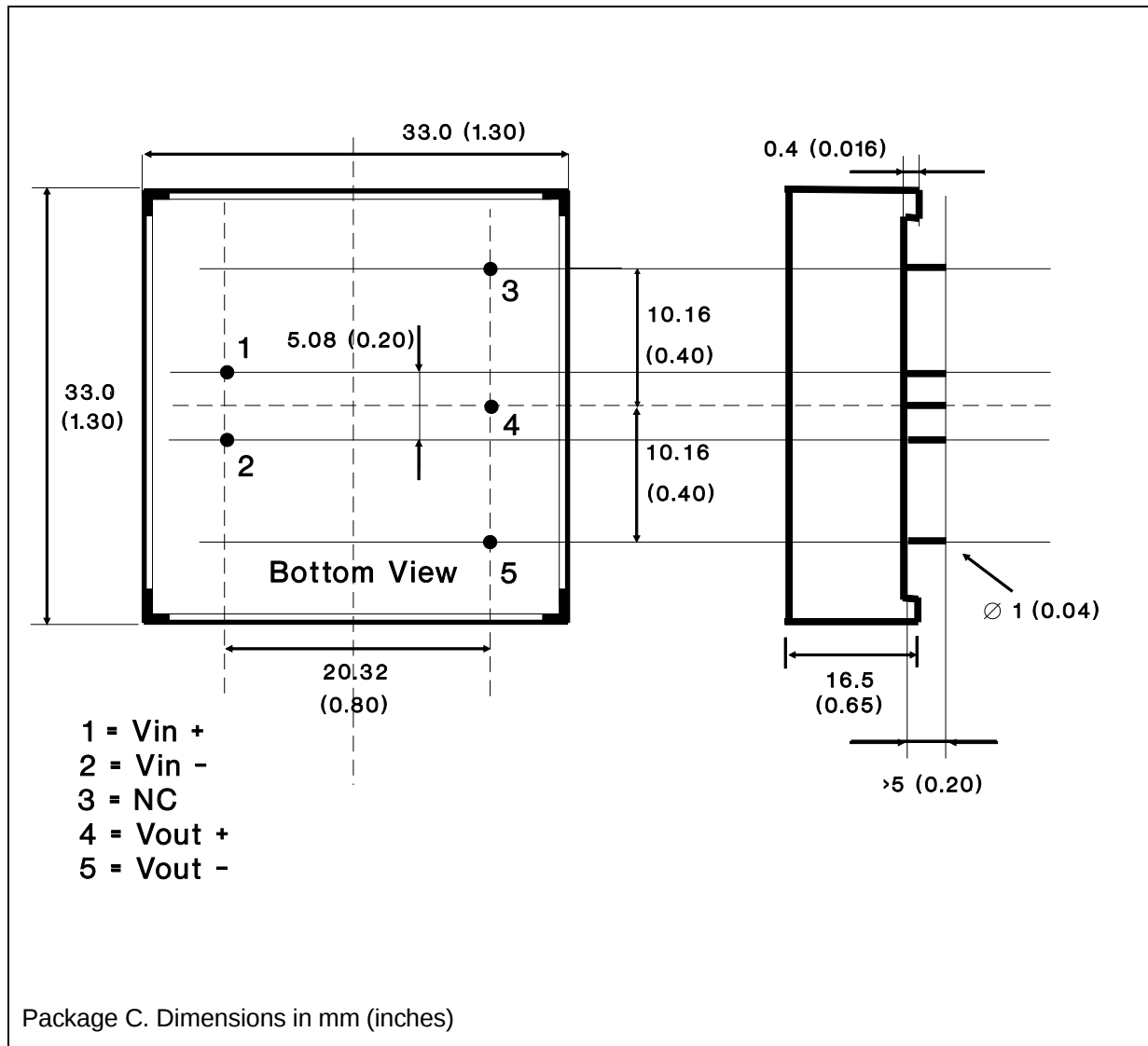
The module operates from a 5V input source and features continuous short-circuit protection.



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

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

CONNECTION DIAGRAM AND MECHANICAL DATA



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