

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

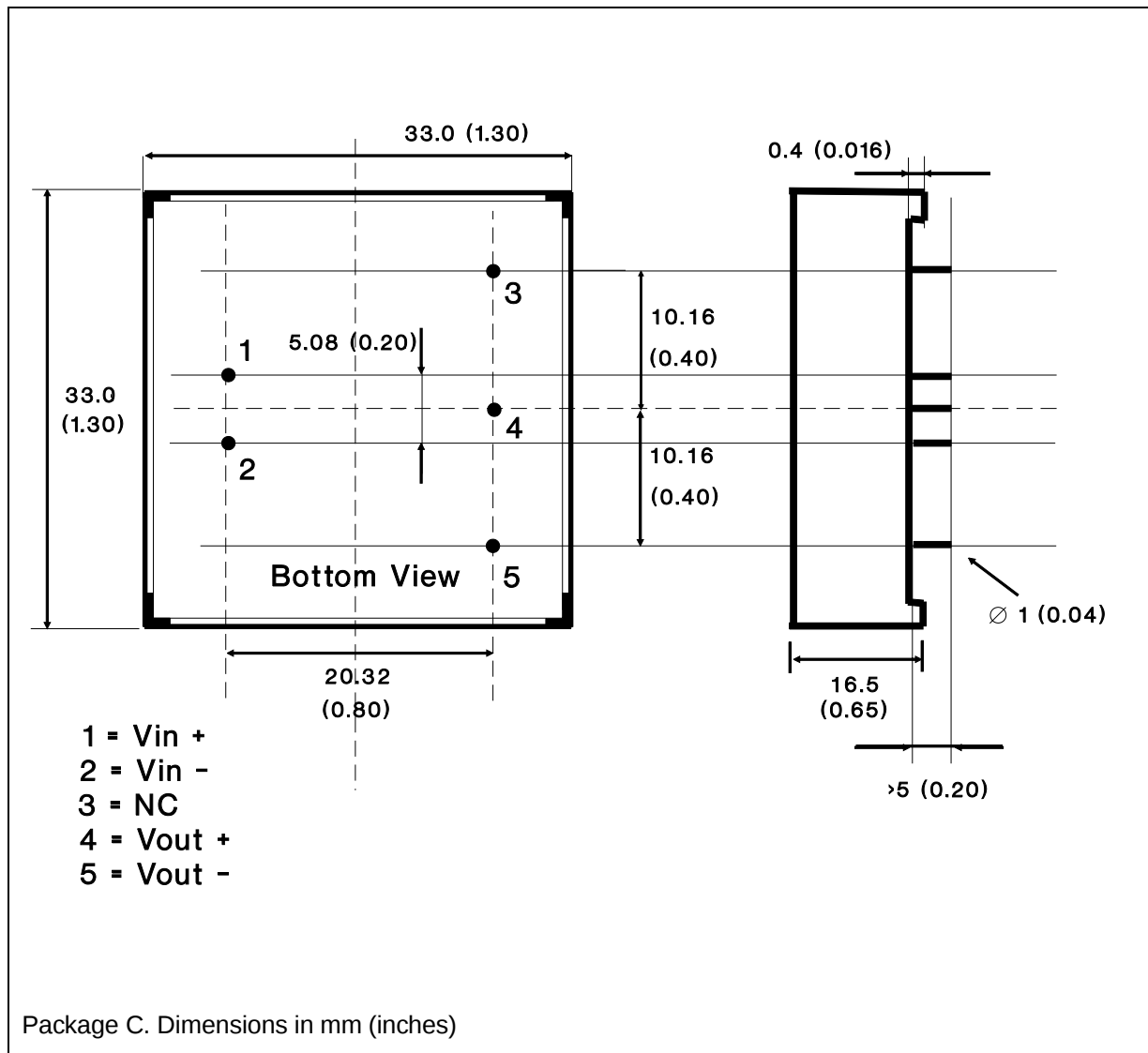
The GS3T5-5.2 is a 3.12W DC-DC converter designed to provide an isolated 5.2V/600mA power source.

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	mV _{RMS}
V_{orn}	Total Output Ripple and Noise Voltage	$V_i = 5V$ $I_o = 600mA$			70	mV _{pp}
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			V _{DC}
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



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