SGS-THOMSON MICROELECTRONICS

S G S-THOMSON

GS-5I24-5D15

T-57-11

TRIPLE OUTPUT DC-DC CONVERTER

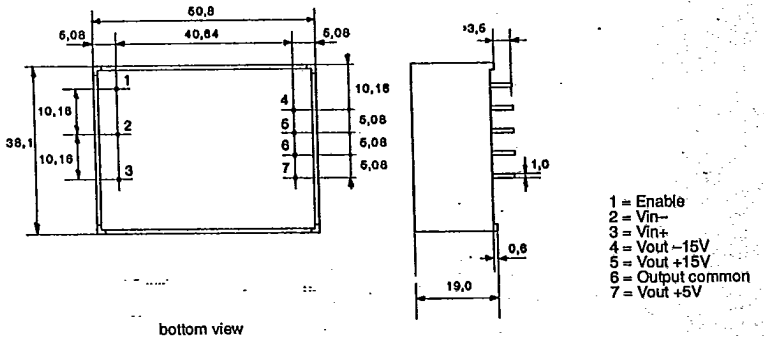
DESCRIPTION

The GS-5I24-5D15 is a 5.0W DC-DC converter designed to provide an isolated 5V/200mA, +15V/125mA and -15V/125mA power source. The module operates from a 24V input source and it offers 2500VDC isolation.
A high level TTL/CMOS compatible input will enable the unit on while a low input will inhibit it.

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Symbol	Parameter	Test Conditions		Min	Typ	Max	Unit
V_i	Input Voltage	I_{o1} = 0 to 200mA I_{o2} = I_{o3} = 0 to 125mA		21.6		30.0	V
I_i	Input Current	V_i = 24V	I_o = Full Load			350	mA
V_{o1}	Output Voltage 1	V_i = 21.6 to 30.0V	I_{o1} = 0 to 200mA	4.75		5.25	V
V_{o2}	Output Voltage 2	V_i = 21.6 to 30.0V	I_{o2} = 0 to 125mA	14.25		15.75	V
V_{o3}	Output Voltage 3	V_i = 21.6 to 30.0V	I_{o3} = 0 to 125mA	–14.25		–15.75	V
η	Efficiency	V_i = 5.0V	I_o = Full Load	65	70		%
V_{or}	Output Ripple Voltage	V_i = 21.6 to 30.0V	I_o = Full Load			20	mVrms
I_{ir}	Input Reflected Current	V_i = 21.6 to 30.0V	I_o = Full Load			40	mApp
f_{op}	Operating Frequency	V_i= 24V	I_o = Full Load		120		kHz
Tstg	Storage Temperature			–20		+85	°C
Top	Operating Temperature			0		+70	°C

CONNECTION DIAGRAM AND MECHANICAL DATA



1 = Enable
2 = Vin–
3 = Vin+
4 = Vout –15V
5 = Vout +15V
6 = Output common
7 = Vout +5V

Dimensions in mm

bottom view

OUTPUT CONFIGURATION OPTIONS

GS-5I24-5D15