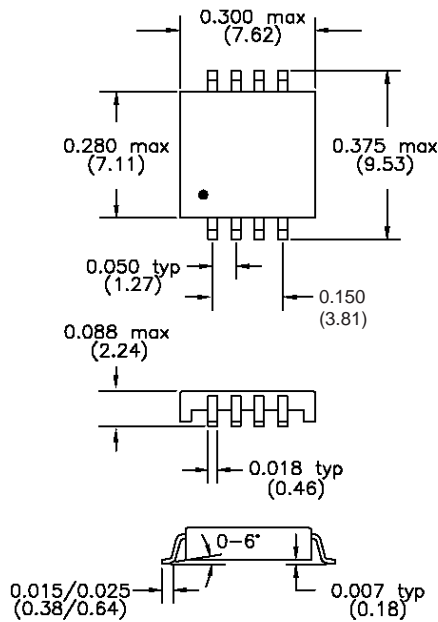


## PCMCIA DC/DC Converter Isolation Modules

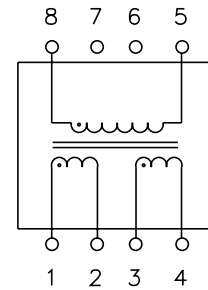
The TGM-P3 series of 8 pin transformers provide the isolation and voltage outputs required for small, low cost DC/DC converter circuits. UL1950, IEC950 and EN60950 recognized. Designed specifically for use with the Maxim™ MAX845 monolithic oscillator/power driver with 3.3V or 5V power source. DIL and SMD packages are also available with isolation voltages up to 4.5KVrms. For more information, pertaining to the MAX845 please contact Maxim at (408) 737-7600. Maxim is a registered trademark of Maxim Integrated Products.

### P3 Package

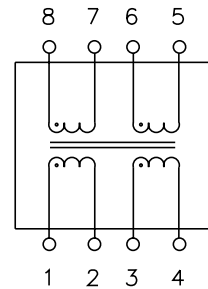


DIMENSIONS : Inch(mm)  
 CO-PLANARITY : 0.004(0.10)

### Circuit Diagram A



### Circuit Diagram B



### Patented Construction, Pat. No. 5,656,985

Electrical Specifications @ 25°C

Operating Temp: -40 to +85°C

Pri Pins: 1-2 & 3-4

Pri OCL: 240µH typ

Pri DCR: 0.6Ω max

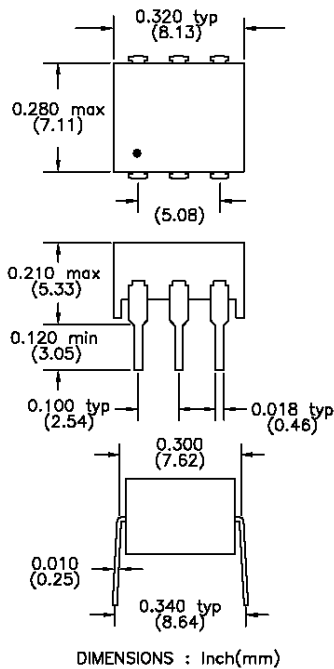
ET Constant: 5.5V-µs min

Part Number	Circuit	Turns Ratio (±3%) PRI:SEC	Cw/w pf max.	Pri LL µH typ.	Isolation Vrms
TGM-010P3	A	1:1:1	10	0.20	500
TGM-020P3	A	4:4:3	10	0.20	500
TGM-030P3	A	2:2:3	12	0.40	500
TGM-040P3	B	1:1:1.3:1.3	12	0.40	500
TGM-210P3	A	1:1:1	10	0.20	1,500

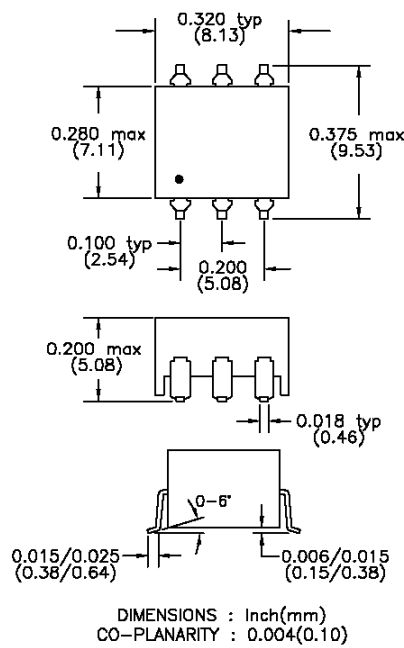
## 6 Pin, 2KVrms DC/DC Converter Isolation Modules

The TGM-NS and TDM-NE, 6 pin transformers provide the isolation and voltage outputs required for small, low cost DC/DC converter circuits. UL1950, IEC950 and EN60950 recognized. Designed specifically for use with the Maxim™ MAX253 and MAX845 monolithic oscillator/power drivers with 3.3V or 5V power source. Other packages are available with isolation voltages up to 4.5KVrms. For more information, pertaining to the MAX845 please contact Maxim at (408) 737-7600. Maxim is a registered trademark of Maxim Integrated Products.

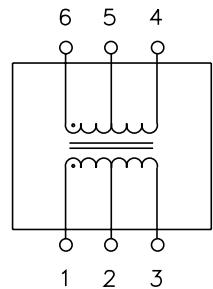
### NE Package



### NS Package



### Circuit Diagram



### Patented Construction, Pat. No. 5,656,985

Electrical Specifications @ 25°C

Operating Temp: -40 to +85°C

Pri Pins: 1-3

Pri OCL: 960µH typ

Pri DCR: 0.8Ω max

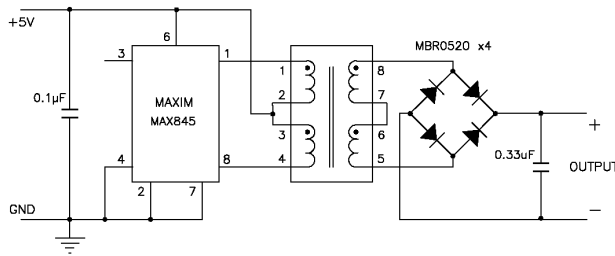
ET Constant: 11 V-µs min

SMD	Part Number	DIL	Turns Ratio (±3%) PRI:SEC	Pri LL µH typ.	Isolation Vrms
TGM-210NS	TDM-210NE		2CT:1CT	0.40	2,000
TGM-220NS	TDM-220NE		8CT:3CT	0.40	2,000
TGM-230NS	TDM-230NE		4CT:3CT	0.40	2,000
TGM-240NS	TDM-240NE		3CT:4CT	0.40	2,000
TGM-250NS	TDM-250NE		1CT:1CT	0.40	2,000
TGM-280NS	TDM-280NE		3CT:8CT	0.40	2,000

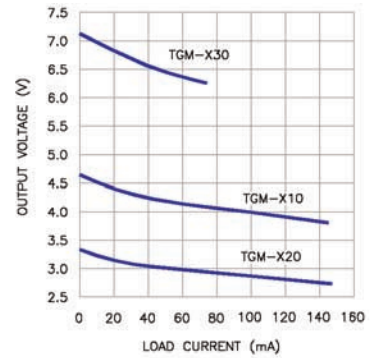
## Maxim MAX253/MAX845 DC/DC Converter Application Note

The TDM and TGM series of transformers have been designed specifically for use with the Maxim™ MAX253 and MAX845 monolithic oscillator/power driver with 3.3V or 5V power source. Multiple output voltages can be achieved depending on the diode circuit and transformer selected. For more information, pertaining to the MAX253/MAX845 please contact Maxim at (408) 737-7600. Maxim is a registered trademark of Maxim Integrated Products.

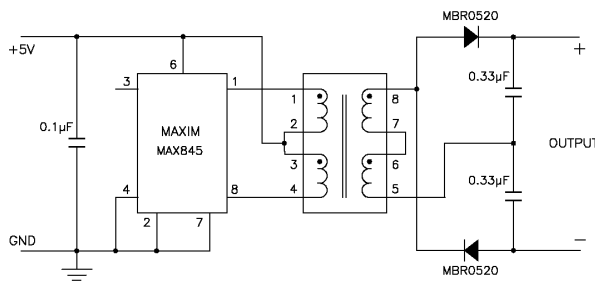
### Bridge Rectifier Circuit



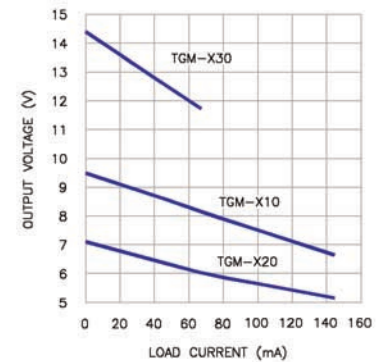
### Output Voltages



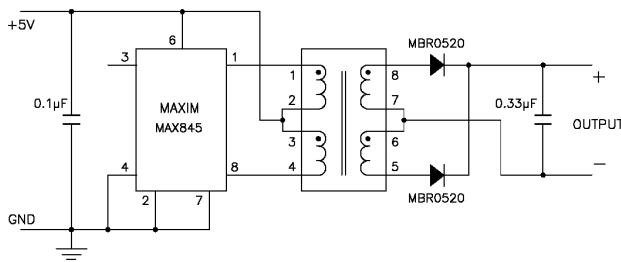
### Doubler Circuit



### Output Voltages



### Full Wave Rectifier Circuit



### Output Voltages

