

# POWER TRANSFORMERS

## Gate Drive Transformers GD100 and GD200 SERIES

Vanguard Part Number	Volt-Sec. v-usec, min.	Dielectric Withstanding Voltage, VAC	D.C. Resistance ohms, max.	Inductance mH, (Ref.)	Schematic	Turns Ratio	Package
GD101	25.0	300	1.1	2.8	1	1:1	A-1
GD102	37.5	300	1.1	3.7	1	1:1	A-2
GD103	75.0	300	1.4	6.0	1	1:1	A-3

**PACKAGE A-1**  
(not to scale)

**PACKAGE A-2**  
(not to scale)

**PACKAGE A-3**  
(not to scale)

**SCHEMATIC 1**

**1:1 TURNS RATIO**

### FEATURES

- Compact, low profile package, ideal for automatic placement
- Built to meet Mil-T-27 specifications
- Leadless device for minimum footprint
- Low Thermal Expansion permits mounting on most substrate materials
- Welded Internal Connections, Transfer Molded Package
- Custom Designs: Other electrical configurations and performance characteristics are available in various sizes and package types.

### CHARACTERISTICS

- -55°C to +125°C operating temperature range
- Mounting and TCE: Call Factory for Application Note
- Outgassing: - Total Mass Loss < 1%
- Terminations: Tin-Lead coated Phosphor Bronze
- Altitude: 70,000 feet or more (1.31 inHg or less)
- Resistance to Soldering Heat: 265°C for 10 secs
- Moisture, Shock and Immersion Resistant
- Insulation Resistance: 10K megohms minimum

Vanguard Part Number	Volt-Sec. v-usec, min.	Dielectric Withstanding Voltage, VAC	D.C. Resistance ohms, max.	Inductance mH, (Ref.)	Schematic	Turns Ratio	Package
GD201	75.0	1000	0.24	2.8	2A	1:1:1	T-3
GD202	75.0	1000	0.24	2.8	2A	1:1:1	T-5
GD203	37.5	300	1.9	3.7	2	1:1:1	G-2

**PACKAGE T-3**  
(not to scale)

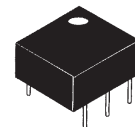
**PACKAGE T-5**  
(not to scale)

**PACKAGE G-2**  
(not to scale)

**SCHEMATIC 2**

**SCHEMATIC 2A**

**1:1:1 TURNS RATIO**



### THROUGH-HOLE PACKAGES

Order comparably sized through-hole packages for these transformers by adding "TH" to part numbers.

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## GD SERIES



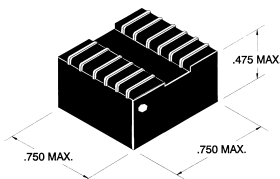
VANGUARD ELECTRONICS  
(714) 842-3330 WWW.VE1.COM

# POWER TRANSFORMERS

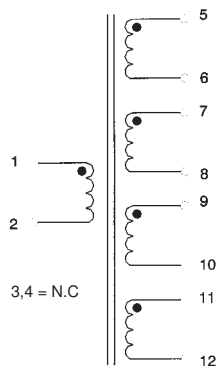
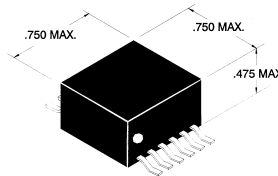
## Gate Drive Transformers GD 300 SERIES

Vanguard Part Number	Volt-Sec. v-usec, min.	Dielectric Withstanding Voltage, VAC	D.C. Resistance ohms, max.	Inductance mH, (Ref.)	Schematic	Turns Ratio	Package
GD301	75.0	1000	0.5	2.8	3	1:1:1:1:1	T-3
GD302	75.0	1000	0.5	2.8	3	1:1:1:1:1	T-5

**PACKAGE T-3**  
(not to scale)



**PACKAGE T-5**  
(not to scale)



**SCHEMATIC 3**

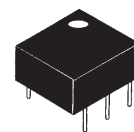
**1:1:1:1:1 TURNS RATIO**

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## GD SERIES



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