

# SGC-4F

## SOLID STATE RELAY 2 AMP 250 VAC

### FEATURES

- Photo isolation
- 600V blocking voltage
- Both "Zero Voltage" and phase controllable "Random" Switching versions
- High surge capability
- PCB mount
- UL, CUR file E43203



Input	Voltage	05D 12D 24D	4 to 6 VDC 9.6 to 14.4 VDC 19.2 to 28.8 VDC
	Turn-on Voltage	05D 12D 24D	4 VDC 9.6 VDC 19.2 VDC
	Current		15 mA
	Turn-off voltage		1 VDC
Output	Voltage Range		50 to 250 VAC
	Current Rating (max.)		2 A
	Inrush Current (non repetitive)		30 A
	Voltage Drop (max.)		1.5 VAC
	Minimum Load Current		15 mA
	Leakage Current (max.)		1.5 mA
	Zero Voltage Switching		Yes
	Min. Off-state Dv/Dt at Maximum Rated Voltage		15 V/us
	Frequency Range		47 to 70 Hz
	Time Turn-on		1/2 of cycle +1 ms
	Time Turn-off		1/2 of cycle +1 ms
General Characteristics	Dielectric Strength		2000 VAC, 1 min.
	Insulation Resistance		1000MΩ min. at 500 VDC
	Ambient Temp. Range (operating)		-30°C (-22°F) to 80°C (176°F)
	Termination		PCB terminal
	Weight		Approximately 5 grams
	Construction		Fully sealed



**AMERICAN ZETTLER, INC.**

[www.azettler.com](http://www.azettler.com)

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6/3/03W

# SGC-4F

## RELAY ORDERING DATA

**SGC-4F**

**05**

**D**

**0**

**T**

MODEL

INPUT  
VOLTAGE

05: 4 to 6V  
12: 9.6 to 14.4V  
24: 19.2 to 28.8V

INPUT  
FORM

D: DC

OUTPUT  
FORM

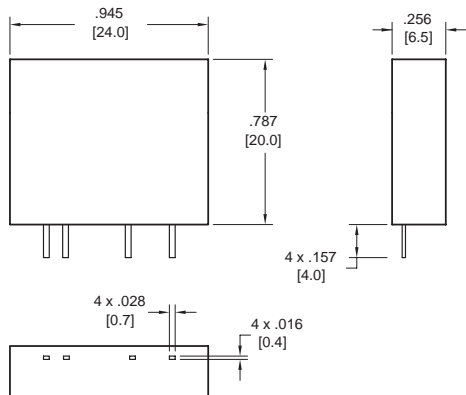
0: Zero-cross  
1: Random Phase

TERMINAL ARRANGEMENT/  
MOUNT FORM

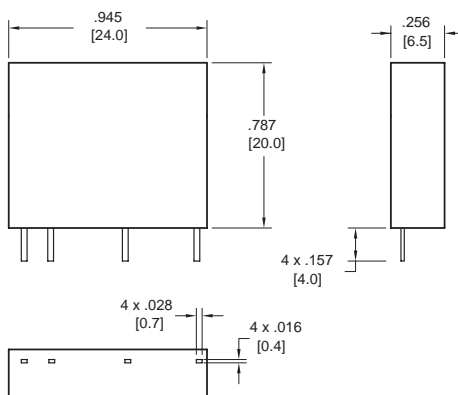
T: Pin T  
M: Pin M

## MECHANICAL DATA

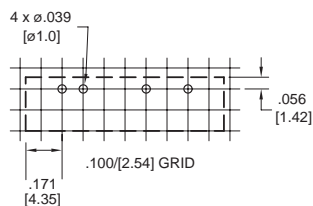
TERMINAL STYLE "T"



TERMINAL STYLE "M"

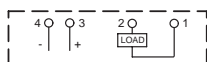


PC BOARD LAYOUT



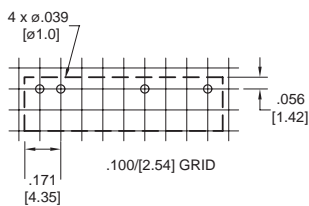
Viewed toward terminals

WIRING DIAGRAM



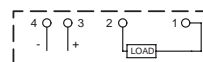
Viewed toward terminals

PC BOARD LAYOUT



Viewed toward terminals

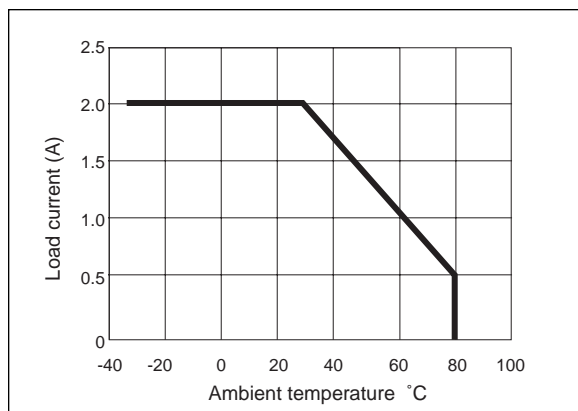
WIRING DIAGRAM



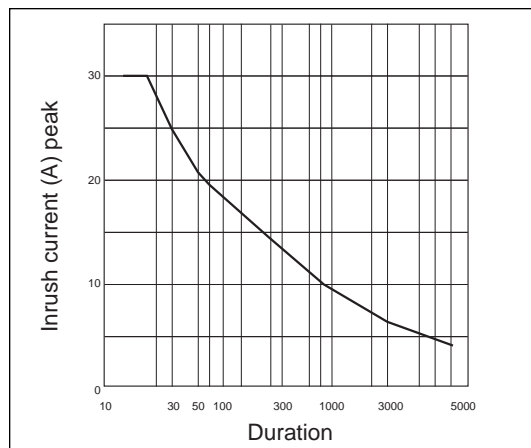
Viewed toward terminals

Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm .010$ "

## Load current vs. ambient temperature characteristics



## Inrush current resistivity Non-repetitive



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