

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 | | 100 mA |
| | Leakage Current (max.) | | 1.5 mA |
| | Zero Voltage Switching | | Yes |
| | Dv/Dt | | 100 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

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10/12/01W

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

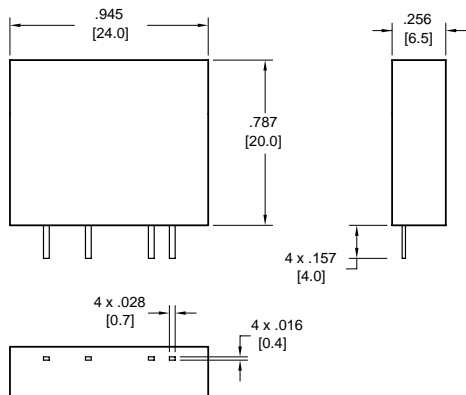
0: Zero-cross
1: Random Phase

TERMINAL ARRANGEMENT/
MOUNT FORM

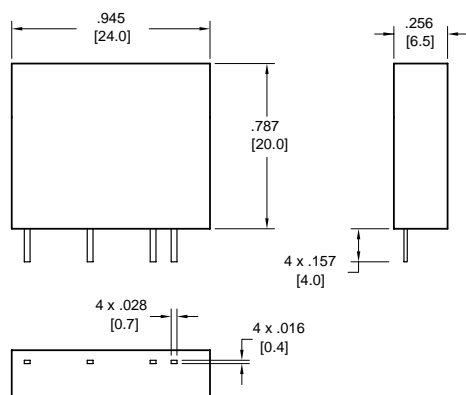
T: Pin T
M: Pin M

MECHANICAL DATA

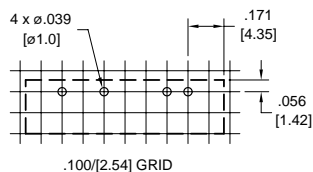
TERMINAL STYLE "T"



TERMINAL STYLE "M"

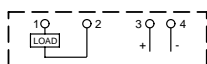


PC BOARD LAYOUT



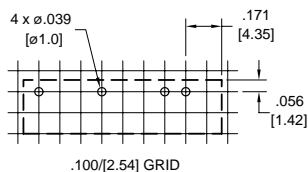
Viewed toward terminals

WIRING DIAGRAM



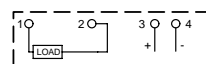
Viewed toward terminals

PC BOARD LAYOUT



Viewed toward terminals

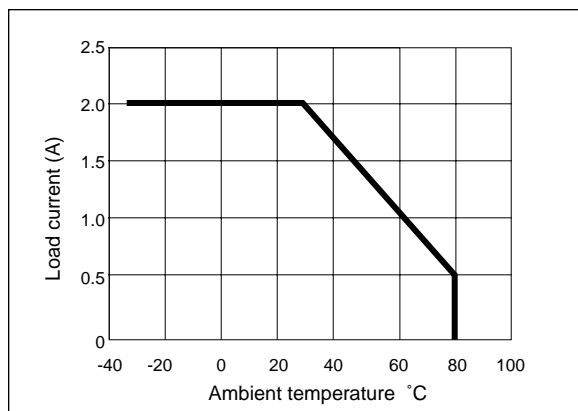
WIRING DIAGRAM



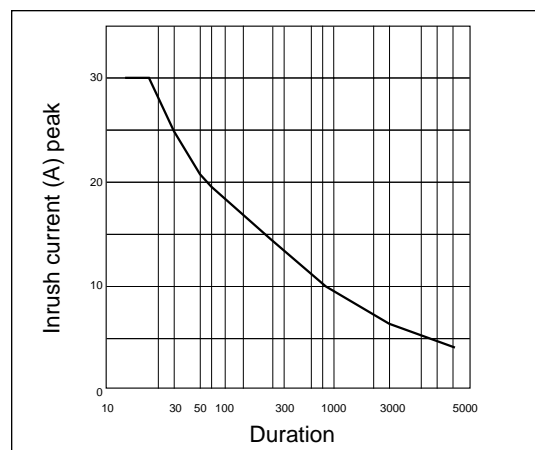
Viewed toward terminals

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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