

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 | | 1000M Ω 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

75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM

6/3/03W

SGC-4F

RELAY ORDERING DATA

SGC-4F

05

D

0

T

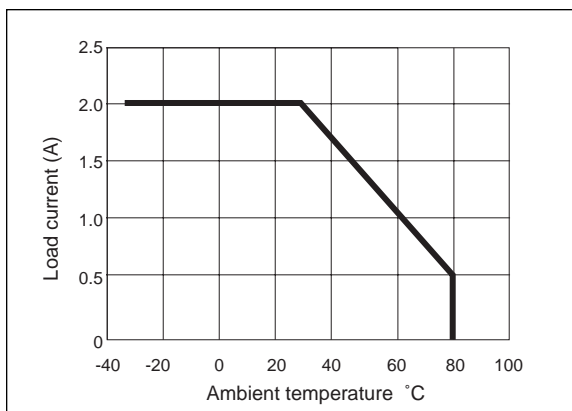
| | | | | |
|-------|--|------------|----------------------------------|-------------------------------------|
| MODEL | INPUT VOLTAGE | INPUT FORM | OUTPUT FORM | TERMINAL ARRANGEMENT/ MOUNT FORM |
| | 05: 4 to 6V 12: 9.6 to 14.4V 24: 19.2 to 28.8V | D: DC | 0: Zero-cross 1: Random Phase | T: Pin T M: Pin M |

MECHANICAL DATA

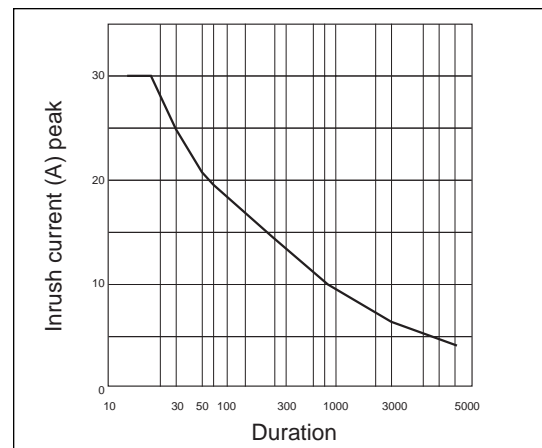
| | | | |
|--|---|--|---|
| <p>TERMINAL STYLE "T"</p> | | <p>TERMINAL STYLE "M"</p> | |
| <p>PC BOARD LAYOUT</p> <p>Viewed toward terminals</p> | <p>WIRING DIAGRAM</p> <p>Viewed toward terminals</p> | <p>PC BOARD LAYOUT</p> <p>Viewed toward terminals</p> | <p>WIRING DIAGRAM</p> <p>Viewed toward terminals</p> |

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

Load current vs. ambient temperature characteristics



Inrush current resistivity Non-repetitive



AMERICAN ZETTLER, INC.

www.azettler.com

75 COLUMBIA • ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 • FAX: (949) 831-8642 • E-MAIL: SALES@AZETTLER.COM