DC COMPONENTS CO., LTD.

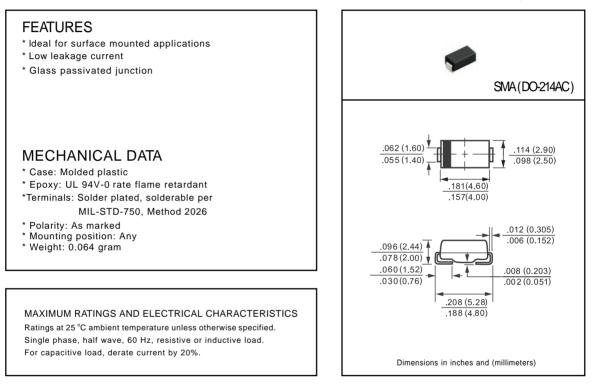
RECTIFIER SPECIALISTS

GS1A/M1 THRU GS1M/M7

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts

CURRENT 1.0 Ampere



| | | | GS1A | GS1B | GS1D | GS1G | GS1J | GS1K | GS1M | |
|--|-------------|----------|--------------|------|------|------|------|-------------|-------|-------|
| | | SYMBOL | M1 | M2 | M3 | M4 | M5 | M6 | M7 | UNITS |
| Maximum Recurrent Peak Reverse Voltage | | Vrrm | 50 | 100 | 200 | 400 | 600 | 00 800 1000 | | Volts |
| Maximum RMS Voltage | | Vrms | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current at TA = 75°C | | lo | 1.0 | | | | | | | Amps |
| Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | | IFSM | 30 | | | | | Amps | | |
| Maximum Forward Voltage at 1.0A DC | | VF | 1.1 | | | | | | Volts | |
| Maximum DC Reverse Current at | @TA = 25°C | - IR | | | | 5.0 | .0 | | | uAmps |
| Rated DC Blocking Voltage | @TA = 125°C | IK | 50 | | | | | | | uAmps |
| Maximum Reverse Recovery Time (Note 3) | | trr | 2.5 | | | | | | uSec | |
| Typical Thermal Resistance (Note 2) | | RθJL | 30 | | | | | | °C/W | |
| Typical Junction Capacitance (Note 1) | | CJ | 15 | | | | | | pF | |
| Operating and Storage Temperature Range | | TJ, TSTG | -65 to + 175 | | | | | | ° C | |

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

2. Thermal Resistance (Junction to Ambient), .24in² (6.0mm²) copper pads to each terminal.

3. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

| 1 | GS1A | | GS1M | ١ |
|---|------|------|------|---|
| | | THRU | | |
| l | M1 | | M7 | 1 |

