

# GNOA - GNOM

**PRV : 50 - 1000 Volts**

**Io : 1.5 Amperes**

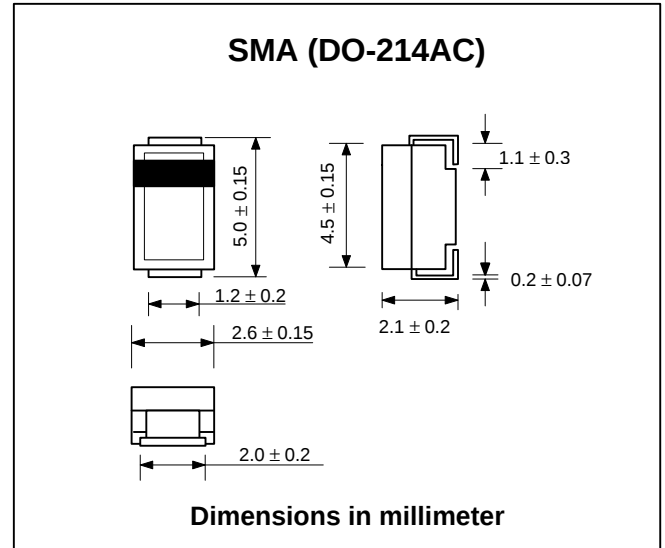
## FEATURES :

- \* Glass passivated chip
- \* High current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* **Pb / RoHS Free**

## MECHANICAL DATA :

- \* Case : SMA Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Lead Formed for Surface Mount
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.067 gram

## GLASS PASSIVATED JUNCTION SILICON SURFACE MOUNT



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

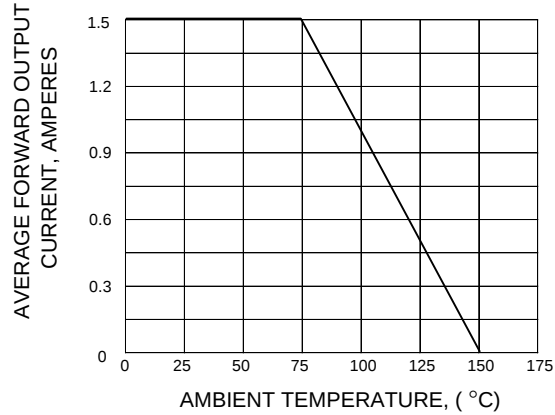
| RATING                                                                                                 | SYMBOL             | GNOA          | GNOB | GNOB | GNOE | GNOG | GNOH | GNOJ | GNOK | GNOB | UNIT |
|--------------------------------------------------------------------------------------------------------|--------------------|---------------|------|------|------|------|------|------|------|------|------|
| Maximum Repetitive Peak Reverse Voltage                                                                | V <sub>RRM</sub>   | 50            | 100  | 200  | 300  | 400  | 500  | 600  | 800  | 1000 | V    |
| Maximum RMS Voltage                                                                                    | V <sub>RMS</sub>   | 35            | 70   | 140  | 210  | 280  | 350  | 420  | 560  | 700  | V    |
| Maximum DC Blocking Voltage                                                                            | V <sub>DC</sub>    | 50            | 100  | 200  | 300  | 400  | 500  | 600  | 800  | 1000 | V    |
| Maximum Average Forward Current Ta = 75°C                                                              | I <sub>F(AV)</sub> | 1.5           |      |      |      |      |      |      |      |      | A    |
| Peak Forward Surge Current<br>8.3ms Single half sine wave Superimposed<br>on rated load (JEDEC Method) | I <sub>FSM</sub>   | 50            |      |      |      |      |      |      |      |      | A    |
| Maximum Forward Voltage at I <sub>F</sub> = 1.5 Amps.                                                  | V <sub>F</sub>     | 1.1           |      |      |      |      |      |      |      |      | V    |
| Maximum DC Reverse Current Ta = 25 °C<br>at rated DC Blocking Voltage Ta = 100 °C                      | I <sub>R</sub>     | 5.0           |      |      |      |      |      |      |      |      | μA   |
|                                                                                                        | I <sub>R(H)</sub>  | 50            |      |      |      |      |      |      |      |      | μA   |
| Typical Junction Capacitance (Note1)                                                                   | C <sub>J</sub>     | 30            |      |      |      |      |      |      |      |      | pF   |
| Junction Temperature Range                                                                             | T <sub>J</sub>     | - 65 to + 150 |      |      |      |      |      |      |      |      | °C   |
| Storage Temperature Range                                                                              | T <sub>STG</sub>   | - 65 to + 150 |      |      |      |      |      |      |      |      | °C   |

### Note :

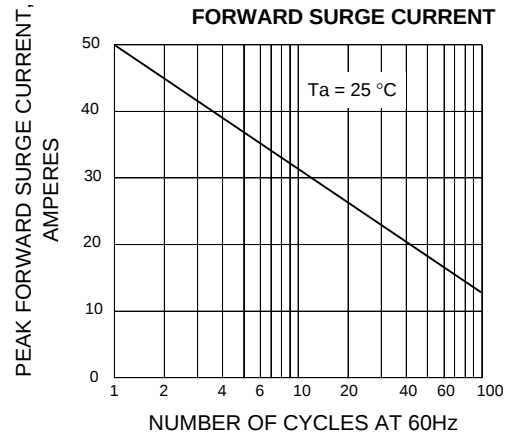
(1) Measured at 1.0 MHz and applied reverse voltage of 4.0V<sub>DC</sub>

## RATING AND CHARACTERISTIC CURVES ( GNOA - GNOM )

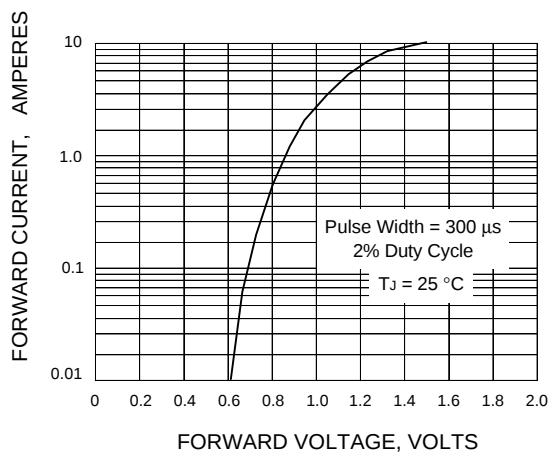
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

