



ELECTRONICS INDUSTRY (USA) CO., LTD.



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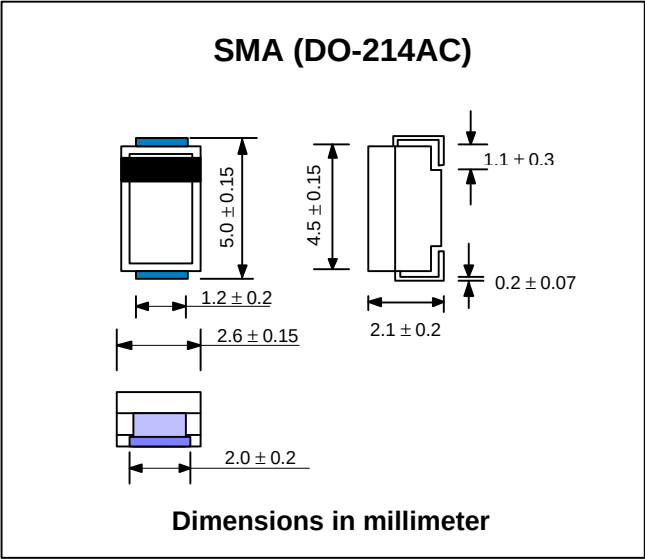
GNOA - GNOM

GLASS PASSIVATED JUNCTION  
SILICON SURFACE MOUNT

PRV : 50 - 1000 Volts  
Io : 1.5 Amperes

- FEATURES :
- \* Glass passivated chip
  - \* High current capability
  - \* High reliability
  - \* Low reverse current
  - \* Low forward voltage drop

- 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 : 0.064 gram



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 | GNOD | GNOE | GNOG | GNOH | GNOJ | GNOK | GNOM | UNIT  |
|--------------------------------------------------------------------------------------------------------|--------------------|---------------|------|------|------|------|------|------|------|------|-------|
| Maximum Repetitive Peak Reverse Voltage                                                                | V <sub>RRM</sub>   | 50            | 100  | 200  | 300  | 400  | 500  | 600  | 800  | 1000 | Volts |
| Maximum RMS Voltage                                                                                    | V <sub>RMS</sub>   | 35            | 70   | 140  | 210  | 280  | 350  | 420  | 560  | 700  | Volts |
| Maximum DC Blocking Voltage                                                                            | V <sub>DC</sub>    | 50            | 100  | 200  | 300  | 400  | 500  | 600  | 800  | 1000 | Volts |
| Maximum Average Forward Current Ta = 75°C                                                              | I <sub>F(AV)</sub> | 1.5           |      |      |      |      |      |      |      |      | Amps. |
| Peak Forward Surge Current<br>8.3ms Single half sine wave Superimposed<br>on rated load (JEDEC Method) | I <sub>FSM</sub>   | 50            |      |      |      |      |      |      |      |      | Amps. |
| Maximum Forward Voltage at I <sub>F</sub> = 1.5 Amps.                                                  | V <sub>F</sub>     | 1.1           |      |      |      |      |      |      |      |      | Volts |
| 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    |

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

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RATING AND CHARACTERISTIC CURVES ( GNOA - GNOM )

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

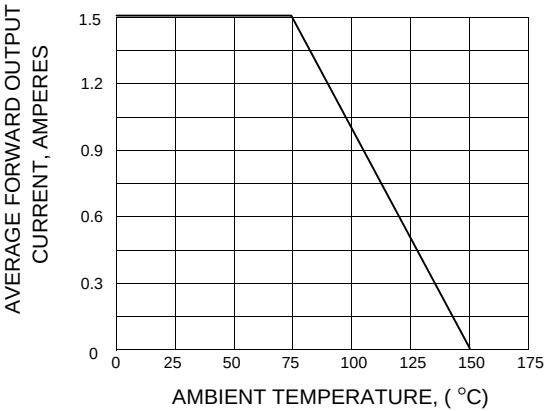


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

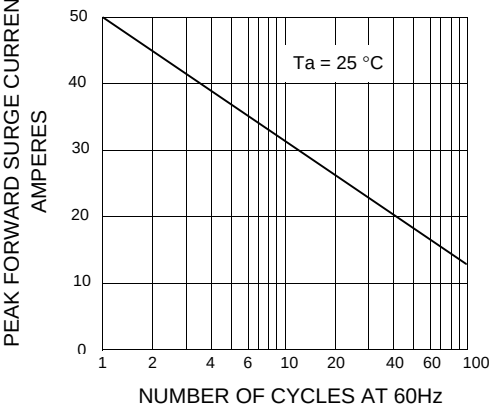


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

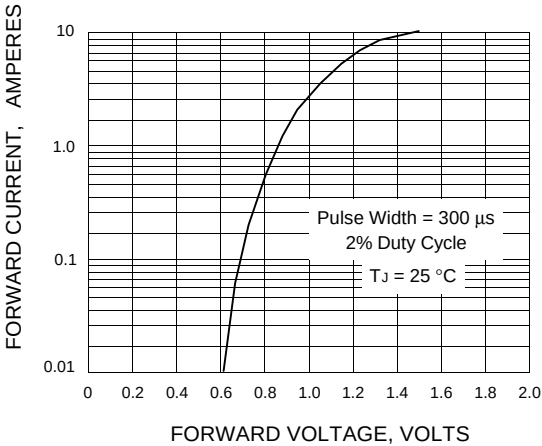


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

