

## Glass Passivated Rectifiers

### FEATURES

- Glass passivated chip junction
- High efficiency, Low VF
- High current capability
- High surge current capability
- Low power loss
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



DO-204AC (DO-15)

### MECHANICAL DATA

**Case:** DO-204AC (DO-15)

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

Base P/N with prefix "H" on packing code - AEC-Q101 qualified

**Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

with prefix "H" on packing code meet JESD 201 class 2 whisker test

**Weight:** 0.4g (approximately)

| MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T <sub>A</sub> =25°C unless otherwise noted) |                    |           |           |           |           |           |           |           |      |
|----------------------------------------------------------------------------------------------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|
| PARAMETER                                                                                    | SYMBOL             | 2A<br>01G | 2A<br>02G | 2A<br>03G | 2A<br>04G | 2A<br>05G | 2A<br>06G | 2A<br>07G | UNIT |
| Maximum repetitive peak reverse voltage                                                      | V <sub>RRM</sub>   | 50        | 100       | 200       | 400       | 600       | 800       | 1000      | V    |
| Maximum RMS voltage                                                                          | V <sub>RMS</sub>   | 35        | 70        | 140       | 280       | 420       | 560       | 700       | V    |
| Maximum DC blocking voltage                                                                  | V <sub>DC</sub>    | 50        | 100       | 200       | 400       | 600       | 800       | 1000      | V    |
| Maximum average forward rectified current                                                    | I <sub>F(AV)</sub> | 2         |           |           |           |           |           |           | A    |
| Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load          | I <sub>FSM</sub>   | 70        |           |           |           |           |           |           | A    |
| Maximum instantaneous forward voltage (Note 1)<br>@ 2 A                                      | V <sub>F</sub>     | 1.1       |           | 1.0       |           |           |           | V         |      |
| Maximum reverse current @ rated VR    T <sub>J</sub> =25 °C<br>                              |                    |           |           |           |           |           |           |           |      |

Note 1: Pulse test with PW=300 μs, 1% duty cycle

Note 2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

| ORDERING INFORMATION |                    |              |                     |         |                        |
|----------------------|--------------------|--------------|---------------------|---------|------------------------|
| PART NO.             | AEC-Q101 QUALIFIED | PACKING CODE | GREEN COMPOUND CODE | PACKAGE | PACKING                |
| 2A0xG<br>(Note 1)    | Prefix "H"         | A0           | Suffix "G"          | DO-15   | 1,500 / Ammo box       |
|                      |                    | R0           |                     | DO-15   | 3,500 / 13" Paper reel |
|                      |                    | B0           |                     | DO-15   | 1,000 / Bulk packing   |

Note 1: "x" defines voltage from 50V (2A01G) to 1000V (2A07G)

| EXAMPLE       |          |                    |              |                     |                    |
|---------------|----------|--------------------|--------------|---------------------|--------------------|
| PREFERRED P/N | PART NO. | AEC-Q101 QUALIFIED | PACKING CODE | GREEN COMPOUND CODE | DESCRIPTION        |
| 2A01G A0      | 2A01G    |                    | A0           |                     |                    |
| 2A01G A0G     | 2A01G    |                    | A0           | G                   | Green compound     |
| 2A01GHA0      | 2A01G    | H                  | A0           |                     | AEC-Q101 qualified |

## RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG.1 MAXMUM FORWARD CURRENT DERATING CURVE

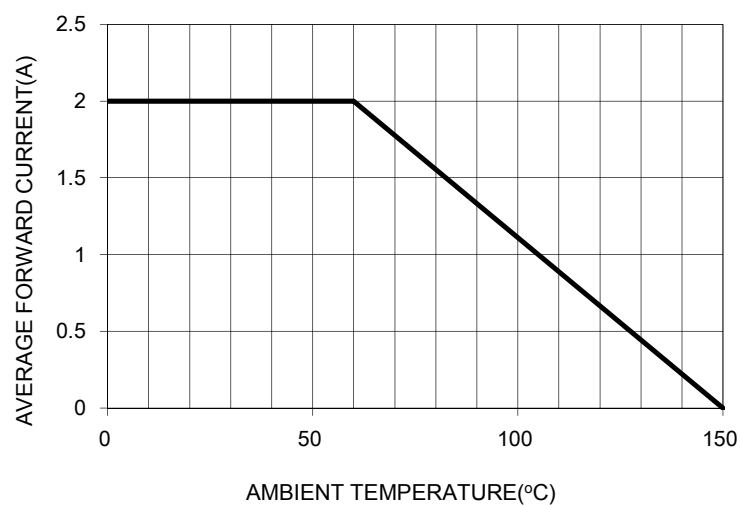


FIG. 2 MAXIMUM FORWARD SURGE CURRENT



Fig. 3 TYPICAL FORWARD CHARACTERISTICS

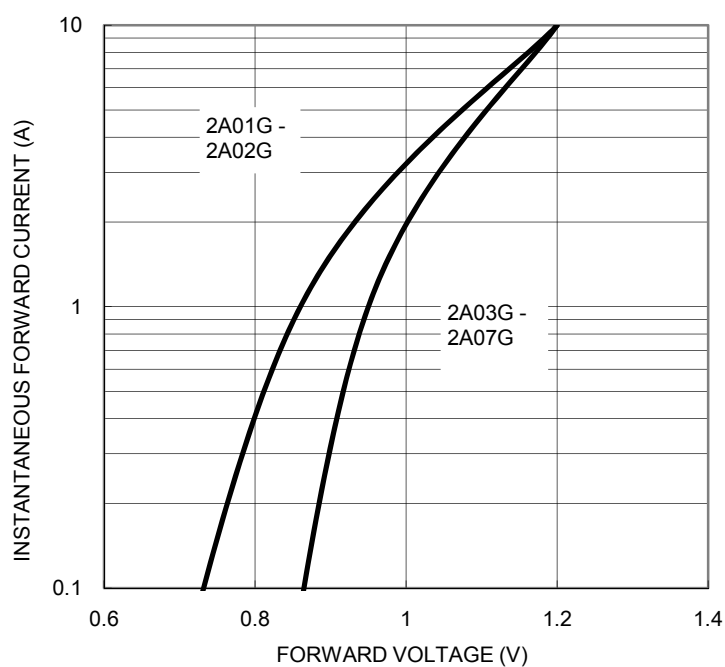


FIG. 4 MAXIMUM REVERSE LEAKAGE CHARACTERISTICS

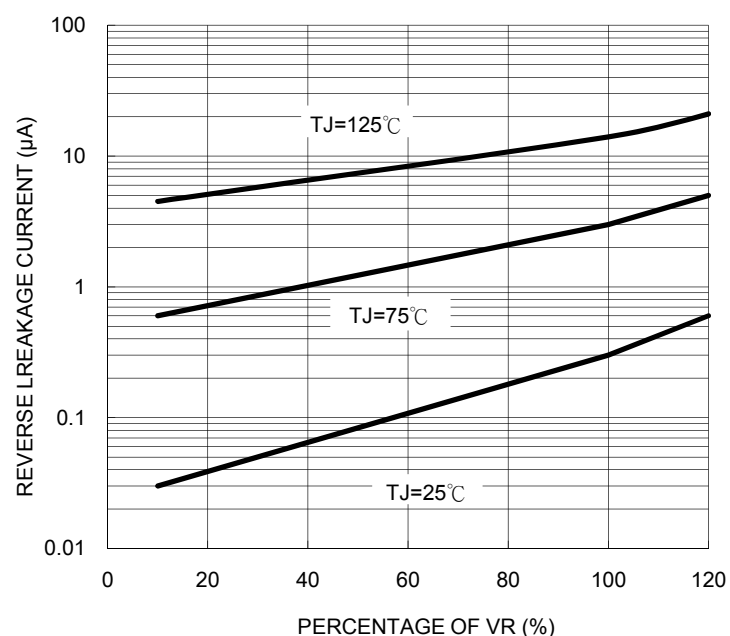
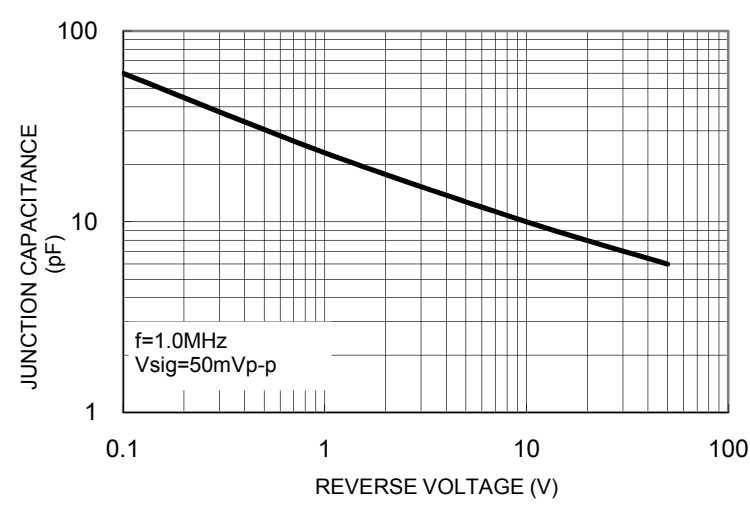
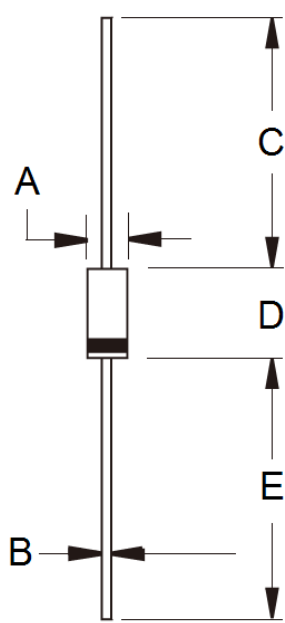


FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



| DIM. | Unit (mm) |      | Unit (inch) |       |
|------|-----------|------|-------------|-------|
|      | Min       | Max  | Min         | Max   |
| A    | 2.60      | 3.60 | 0.102       | 0.142 |
| B    | 0.70      | 0.90 | 0.028       | 0.035 |
| C    | 25.40     | -    | 1.000       | -     |
| D    | 5.80      | 7.60 | 0.228       | 0.299 |
| E    | 25.40     | -    | 1.000       | -     |

MARKING DIAGRAM



P/N = Specific Device Code  
G = Green Compound  
YWW = Date Code  
F = Factory Code

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9