



### **GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER**

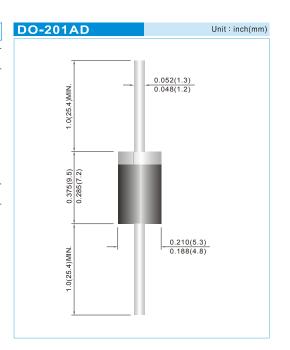
VOLTAGE 50 to 1000 Volts CURRENT 3.0 Amperes

#### **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- · Glass passivated junction
- Exceeds environmental standards of MIL-S-19500/228
- Lead free in comply with EU RoHS 2011/65/EU directives

### **MECHANICAL DATA**

- · Case: Molded plastic, DO-201AD
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: Color Band denotes cathode end
- Mounting Position: Any
- Weight: 0.0395 ounce, 1.122 gram



### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings 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%.

| PARAMETER   | SYMBOL           | PG5400      | PG5401 | PG5402 | PG5403 | PG5404 | PG5405 | PG5406 | PG5407 | PG5408 | UNITS |
|---|------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage  |                  | 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 .375"(9.5mm) lead length  |                  | 3.0         |        |        |        |        |        | Α      |        |        |       |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method) |                  | 150         |        |        |        |        |        | Α      |        |        |       |
| Maximum Forward Voltage at 3.0A   |                  | 1.2         |        |        |        |        |        | ٧      |        |        |       |
| Maximum DC Reverse Current at Rated DC $T_J=25^{\circ}C$ Blocking Voltage $T_J=100^{\circ}C$      |                  | 1.0<br>100  |        |        |        |        |        | μΑ     |        |        |       |
| Typical Junction Capacitance (Note 1)   | CJ               |             |        |        |        | 30     |        |        |        |        | pF    |
| Typical Thermal Resistance (Note 2)   |                  | 24<br>19    |        |        |        |        | °C / W |        |        |        |       |
| Operating Junction and Storage Temperature Range  |                  | -55 to +150 |        |        |        |        |        |        | °C     |        |       |

#### NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Thermal Resistance from Junction to Ambient and from junction to lead at 0.375"(9.5mm)lead length P.C.B.mounted.

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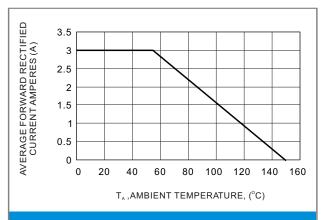
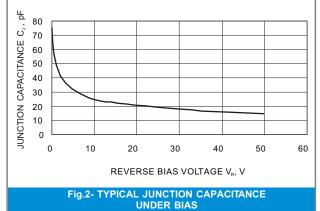


Fig.1- FORWARD CURRENT DERATING CURVE



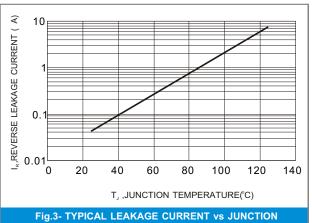


Fig.3- TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE

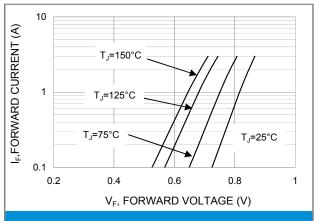


Fig.4- TYPICAL FORWARD CHARACTERISTICS





## Part No\_packing code\_Version

PG5400\_AY\_00001

PG5400\_AY\_10001

PG5400\_B0\_00001

PG5400\_B0\_10001

PG5400\_R2\_00001

PG5400\_R2\_10001

### For example:



| Packing Code XX                      |                      |                                   |                      |            | Version Code XXXXX   |                                       |  |  |  |
|--------------------------------------|----------------------|-----------------------------------|----------------------|------------|----------------------|---------------------------------------|--|--|--|
| Packing type                         | 1 <sup>st</sup> Code | Packing size code                 | 2 <sup>nd</sup> Code | HF or RoHS | 1 <sup>st</sup> Code | 2 <sup>nd</sup> ~5 <sup>th</sup> Code |  |  |  |
| Tape and Ammunition Box (T/B)        | A                    | N/A                               | 0                    | HF         | 0                    | serial number                         |  |  |  |
| Tape and Reel<br>(T/R)               | R                    | 7"                                | 1                    | RoHS       | 1                    | serial number                         |  |  |  |
| Bulk Packing<br>(B/P)                | В                    | 13"                               | 2                    |            |                      |                                       |  |  |  |
| Tube Packing<br>(T/P)                | Т                    | 26mm                              | X                    |            |                      |                                       |  |  |  |
| Tape and Reel (Right Oriented) (TRR) | 8                    | 52mm                              | Y                    |            |                      |                                       |  |  |  |
| Tape and Reel (Left Oriented) (TRL)  | L                    | PANASERT T/B CATHODE UP<br>(PBCU) | U                    |            |                      |                                       |  |  |  |
| FORMING                              | F                    | PANASERT T/B CATHODE DOWN (PBCD)  | D                    |            |                      |                                       |  |  |  |

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