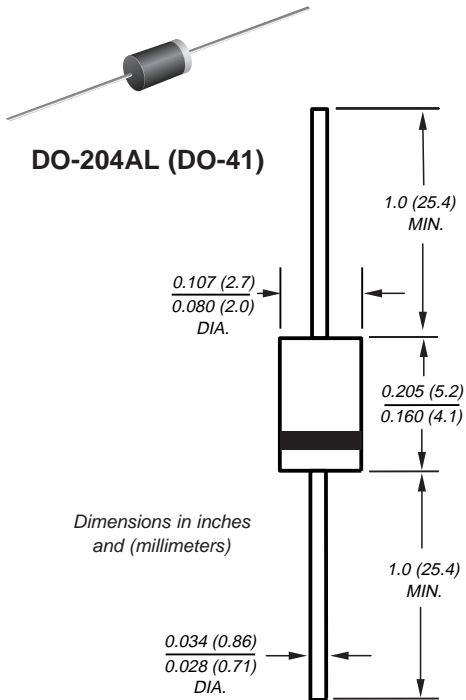


Glass Passivated Junction Rectifiers

Reverse Voltage 50 to 1000V
Forward Current 1.0A



Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Glass passivated junction
- Capable of meeting environmental standards of MIL-S-19500
- 1.0A operation at $T_A = 75^\circ\text{C}$ with no thermal runaway
- Typical I_R less than $0.1\mu\text{A}$

Mechanical Data

Case: JEDEC DO-204AL, molded plastic over glass passivated chip

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

High temperature soldering guaranteed: $250^\circ\text{C}/10$ seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 oz., 0.3 g

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| Parameter | Symbol | GPP 10A | GPP 10B | GPP 10D | GPP 10G | GPP 10J | GPP 10K | GPP 10M | Unit |
|---|------------------------------------|-------------|---------|---------|---------|---------|---------|---------|---------------------------|
| * Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| * Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| * Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| * Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A = 75^\circ\text{C}$ | $I_{F(AV)}$ | 1.0 | | | | | | | A |
| * Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 30 | | | | | | | A |
| * Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length $T_A = 75^\circ\text{C}$ | $I_{R(AV)}$ | 30 | | | | | | | μA |
| Typical thermal resistance ⁽¹⁾ | $R_{\theta JA}$ $R_{\theta JL}$ | 50 25 | | | | | | | $^\circ\text{C}/\text{W}$ |
| * Operating junction and storage temperature range | T_J, T_{STG} | -55 to +150 | | | | | | | $^\circ\text{C}$ |

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| | | | |
|---|-------|-----------|---------------|
| Maximum instantaneous forward voltage at 1.0A | V_F | 1.1 | V |
| * Maximum DC reverse current at rated DC blocking voltage | I_R | 5.0 50 | μA |
| Maximum junction capacitance at 4.0V, 1MHz | C_J | 15 | pF |

Notes: (1) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted
*JEDEC registered values

GPP10A thru GPP10M

Vishay Semiconductors
formerly General Semiconductor



Ratings and Characteristic Curves (T_A = 25°C unless otherwise noted)



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