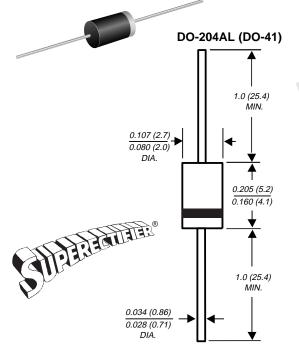


GP08A THRU GP08J

Glass Passivated Junction Rectifier

Reverse Voltage 50 to 600 V Forward Current 0.8 A



NOTE: Lead diameter is $\frac{0.026 (0.66)}{0.023 (0.58)}$ for suffix "E" part numbers

Dimensions in inches and (millimeters)

*Glass-plastic encapsulation technique is covered by
Patent No. 3,996,602, and brazed-lead assembly by Patent No. 3,930,306

Patentieu Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temperature metallurgically bonded construction
- Cavity-free glass passivated junction
- Capable of meeting environmental standards of MIL-S-19500
- 0.8 Ampere operation at TA=55°C with no thermal runaway
- Typical I_R less than 0.1μA
- High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

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

Terminals: Plated axial leads, solderable per

MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any **Weight:** 0.012 ounce, 0.3 gram

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

| | SYMBOLS | GP08A | GP08B | GP08D | GP08G | GP08J | UNITS |
|--|-----------------------------------|-------------|-------|-------|-------|-------|-------|
| Maximum repetitive peak reverse voltage | Vrrm | 50 | 100 | 200 | 400 | 600 | V |
| Maximum RMS voltage | VRMS | 35 | 70 | 140 | 280 | 420 | V |
| Maximum DC blocking voltage | VDC | 50 | 100 | 200 | 400 | 600 | V |
| Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =55°C | lF(AV) | 8.0 | | | | | А |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at T _A =55°C | I _{FSM} | 25 | | | | | А |
| Maximum full load reverse current full cycle average 0.375" (9.5mm) lead length at T _A =55°C | lR(AV) | 30 | | | | | μΑ |
| Typical thermal resistance (NOTE 1) | R⊝JA | 55 | | | | | °C/W |
| Operating junction and storage temperature range | T _J , T _{STG} | -65 to +175 | | | | | °C |

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

| | SYMBOLS | GP08A | GP08B | GP08D | GP08G | GP08J | UNITS |
|--|-----------------|-------|-------|-----------|-------|-------|-------|
| Maximum instantaneous forward voltage at 0.8A | VF | | | 1.3 | | | V |
| Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C | lR | | | 5.0 50 | | | μΑ |
| Typical reverse recovery time at IF=0.5A, IR=1.0A, Irr=0.25A | t _{rr} | | | 2.0 | | | μs |
| Typical junction capacitance at 4.0V, 1MHz | Сл | | | 8.0 | | | pF |



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

