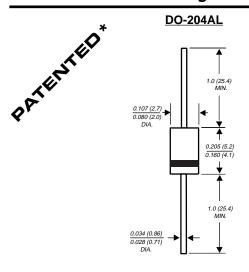
GP02-20 THRU GP02-40

HIGH VOLTAGE GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 2000 to 4000 Volts

Forward Current - 0.25 Ampere



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



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temperature metallurgically bonded construction
- Glass passivated cavity-free junctions
- Capable of meeting environmental standards of MIL-S-19500
- ◆ 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 AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	GP02 -20	GP02 -25	GP02 -30	GP02 -35	GP02 -40	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	2000	2500	3000	3500	4000	Volts
Maximum RMS Voltage	V _{RMS}	1400	1750	2100	2450	2800	Volts
Maximum DC blocking voltage	V _{DC}	2000	2500	3000	3500	4000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA=55°C	I _(AV)	0.25					Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load at: (JEDEC Method) TA=55°C	IFSM	15.0					Amps
Maximum instantaneous forward voltage at 1.0A	VF	3.0				Volts	
Maximum DC reverse current T _A = 25°C at rated DC blocking voltage T _A =100°C	I _R	5.0 50.0					μА
Typical reverse recovery time (NOTE 1)	trr	2.0				μs	
Typical junction capacitance (NOTE 2)	CJ	3.0					pF
Typical thermal resistance (NOTE 3)	Roja	130.0					°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +175					°C

NOTES:

- (1) Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr=0.25A
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead lengths, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES GP02-20 THRU GP02-40

