

GP02-20

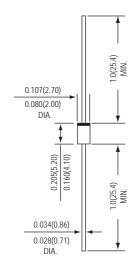
HIGH VOLTAGE SINTERED GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 2000 Volts

Forward Current - 1.0 Ampere



DO-204AL



*Dimensions in inches and (millimeters)



FEATURES

- * GPRC (Glass Passivated Rectifier Chip) inside
- * Glass passivated cavity-free junction
- * Capable of meeting environmental standards of MIL-S-19500
- * 1.0 Ampere operation at Ta=75°C and 55°C with no thermal runaway
- * High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3 kg) tension
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

MECHANICAL DATA

Case: JEDEC DO-204AL molded plastic over glass body **Terminals**: Tin Plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Weight: 0.012 ounce, 0.3 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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Ratings at 25 °C ambient temperature	SYMBOLS	GP02-20	UNITS
unless otherwise specified.			
Maximum repetitive peak reverse voltage	VRRM	2000	Volts
Maximum RMS voltage	VRMS	1400	Volts
Maximum DC blocking voltage	VDC	2000	Volts
Maximum average forward rectified current		1.0	Amps
0.375" (9.5mm) lead length (SEE FIG.1)	I (AV)		
Peak forward surge current 8.3ms single half sine-wave			Amps
superimposed on rated load (JEDEC Method)	IFSM	30	
Maximum instantaneous forward voltage at 1.0 A	VF	2.0	Volts
Maximum DC reverse current TA=25°C		5 50	
at rated DC blocking voltage Ta=100°C	lR		uA
Typical reverse recovery time (NOTE 1)	Trr	2.0	uS
Typical junction capacitance (NOTE 2)	CJ	3.0	pF
Typical thermal resistance (NOTE 3)	R ∂JA	130	°C/W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175	°c

NOTES: (1) Revers 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 OF GP02-20

