

# **GP10-30**

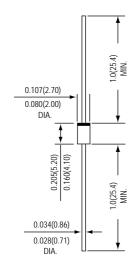
### HIGH VOLTAGE SINTERED GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 3000 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**

Ratings at 25 ambient temperature unless otherwise specified.	SYMBOLS	GP10-30	UNITS
Maximum repetitive peak reverse voltage	VRRM	3000	Volts
Maximum RMS voltage	VRMS	2100	Volts
Maximum DC blocking voltage	VDC	3000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length (SEE FIG.1)	l (AV)	1.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	20	Amps
Maximum instantaneous forward voltage at 1.0 A	VF	1.5	Volts
Maximum DC reverse current  TA=25 at rated DC blocking voltage	lr	5	uA
Typical thermal resistance (NOTE 1)	R JA	130	/ W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175	

NOTES: (1) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead lengths, P.C.B. mounted.

(2) Preliminary draft.



# **RATINGS AND CHARACTERISTIC CURVES**

