

GP10A THRU GP10M

1.0 AMP. Glass Passivated Junction Plastic Rectifiers

- м

Voltage Range 50 to 1000 Volts Current 1.0 Ampere

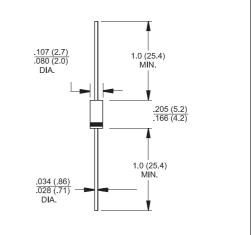
DO-41

Features

- High temperature metallurgically bonded construction
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- ♦ Glass passivated cavity-free junction
- Capable of meeting environmental standards of MIL-S-19500
- 1.0 ampere operation at T_A=75°C and 55°C with no thermal runaway
- ♦ Typical Î_R less than 0.1 uA
- High temperature soldering guaranteed:
 350°C / 10 seconds, 0.375°(9.5mm) lead length, 5 lbs.
 (2.3kg) tension

Mechanical Data

- ♦ Case: JEDEC DO-41 molded plastic over glass body
- Lead: 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



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	GP 10A	GP 10B	GP 10D	GP 10G	GP 10J	GP 10K	GP 10M	Units
Maximum Recurrent 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 .375"(9.5mm) Lead Length (See Fig. 1)	I _(AV)				1.0				Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}				30				Α
Maximum Instantaneous Forward Voltage @1.0A	V _F			1.1			1	.2	٧
Maximum DC Reverse Current @ T_A =25 $^{\circ}$ C at Rated DC Blocking Voltage @ T_A =125 $^{\circ}$ C	I _R				5.0 50				uA uA
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length $@T_A=75^{\circ}C$	HTIR	30							uA
Typical Junction Capacitance (Note 1)	Cj	10						рF	
Typical Thermal Resistance (Note 2)	$R\theta_{JA}$				65				C/W
Operating and Storage Temperature Range	T_{J}, T_{STG}	- 65 to + 175							C

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

2. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.



