

GP30A THRU GP30M

3.0 AMPS. Glass Passivated Junction Plastic Rectifiers



Voltage Range 50 to 1000 Volts Current 3.0 Amperes

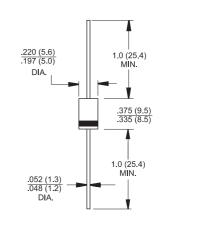
DO-201AD

Features

- High temperature metallurgically bonded construction
- \diamond Plastic material used carries Underwriters Laboratory Classification 94V-O
- Glass passivated cavity-free junction
- \diamond Capable of meeting environmental standards of
- 3.0 amperes operation at T_A=55°C and with no thermal runaway
- Typical I_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-201AD molded plastic over glass body Lead: Plated axial leads, solderable per MIL-STD- 750,
- \diamond Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.048 ounce, 1.28 grams



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 GP GP GP GP GP Units								
Symbol	30A	30B	30D	30G	30J	30K	30M	Units
V_{RRM}	50	100	200	400	600	800	1000	V
V_{RMS}	35	70	140	280	420	560	700	V
V_{DC}	50	100	200	400	600	800	1000	V
I _(AV)	3.0							Α
I _{FSM}	125						Α	
V_{F}	1.2					V		
I _R	5.0 100						uA uA	
HT _{IR}	100							uA
Cj	40.0							pF
$R\theta_{JA}$	35							€W
Т. Т	- 65 to + 175							ဗ
	$\begin{tabular}{c} Symbol \\ \hline V_{RRM} \\ V_{RMS} \\ \hline V_{DC} \\ \hline I_{(AV)} \\ \hline I_{FSM} \\ \hline V_{F} \\ \hline I_{R} \\ \hline HT_{IR} \\ \hline Cj \\ \hline \end{tabular}$	Symbol GP 30A V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _(AV) I _{FSM} V _F 1 I _R HT _{IR} C _j R _{θ_{JA}}	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Symbol GP 30A GP 30B GP 30D V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I _(AV) I _(SW) V _F 1.2 I HT _{IR} I I C _j R _{DJA} I	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

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

2. Mount on Cu-Pad Size 16mm x 16mm on P.C.B.



