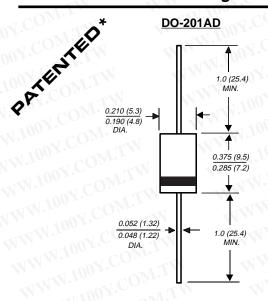
GP30A THRU GP30M

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 3.0 Amperes



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 junction
- Capable of meeting environmental standards of MIL-S-19500
- ◆ 3.0 Ampere operation at T_A=55°C with no thermal runaway
- ♦ Typical IR less than 0.1μA
- 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 **Terminals:** Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.12 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

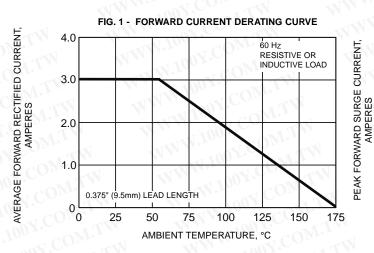
Ratings at 25 G ambient temperature unless otherwise specified.									
WWW.IOOY.COM.TW	SYMBOLS	GP 30A	GP 30B	GP 30D	GP 30G	GP 30J	GP 30K	GP 30M	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =55°C	I _(AV)	W.V	100X.C	OM.	3.0	V	WW.	100Y.	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}		1.1007		125.0		MMA	N.100Y	Amps
Maximum instantaneous forward voltage at 3.0A	VF	1.2		1.00		1.1			Volts
Maximum reverse current TA=25°C at rated DC blocking voltage TA=150°C	IR	W	MN.10	OY.C	5.0 100.0	N	W)	WW.1	μА
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length at T _A =55°C	I _{R(AV)}	7	WW.	100X.	100.0	IM		NWW.	μА
Maximum reverse recovery time (NOTE 1)	trr	4	MMM	· any	3.0	W		MM	μs
Typical junction capacitance (NOTE 2)	CJ		WW	N.To.	40.0	TW.		WW	pF
Typical thermal resistance (NOTE 3)	R⊕JA R⊕JL		WW	11. 10°	20.0 10.0	MI	N	WV	°C/W
Operating junction and storage temperature range	TJ, TSTG	Ţ	W	N	-65 to +1	75	V		°C

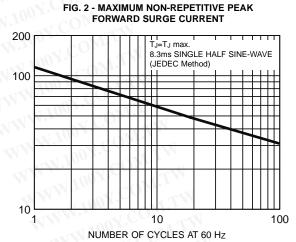
NOTES

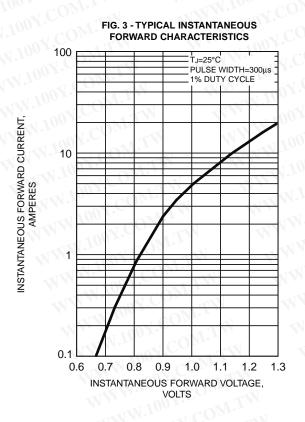
- (1) Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_{II}=0.25A
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted

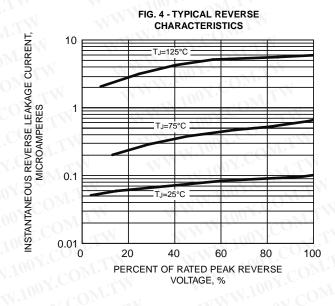


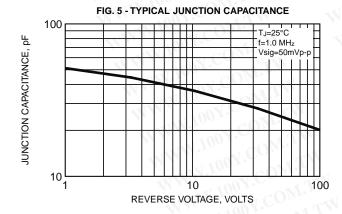
RATINGS AND CHARACTERISTIC CURVES GP30A THRU GP30M











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