

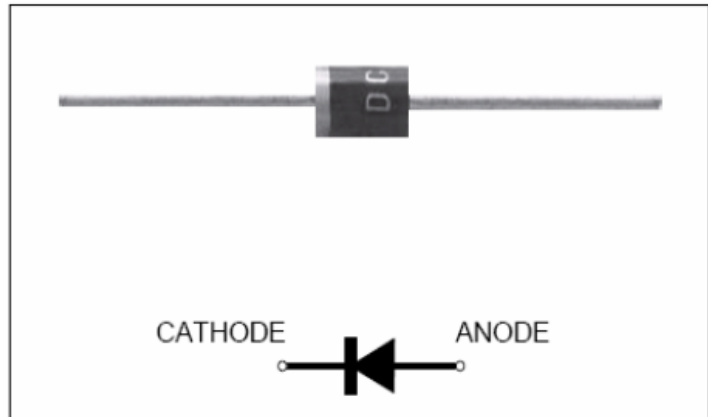
RGP30A thru RGP30M

1. FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * High temperature metallurgically bonded construction
- * Cavity-free glass passivated junction
- * Capable of meeting environmental standards of MIL-S-19500
- * 3.0 A operation at TA=55°C with no thermal runaway
- * For use in high frequency rectifier circuits
- * Fast switching for high efficiency
- * Typical IR less than 0.2μA
- * High temperature soldering guaranteed: 260°C/10 seconds
- * 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Glass Passivated Junction Fast Switching Rectifiers

Reverse Voltage 50 to 1000V
Forward Current 3.0A



2. Mechanical Data

- Case:** JEDEC DO-201AD, molded plastic over glass die
- Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity:** Color band denotes cathode end
- Mounting Position:** Any
- Weight:** 0.038 oz., 1.03 g
- Handling precaution:** None

We declare that the material of product compliance with RoHS requirements.

3. Electrical Characteristic

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	RGP 30A	RGP 30B	RGP 30D	RGP 30G	RGP 30J	RGP 30K	RGP 30M	Unit
Maximum repetitive 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 0.375" (9.5mm) lead length at T _A = 55°C	I _{F(AV)}	3.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	125							A
Maximum full load reverse current, full cycle average, 0.375" (9.5mm) lead lengths at T _A = 55°C	I _{R(AV)}	100							μA
Typical thermal resistance (Note 2)	RθJA	20							°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-50 to +150							°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	RGP 30A	RGP 30B	RGP 30D	RGP 30G	RGP 30J	RGP 30K	RGP 30M	Unit
Maximum instantaneous forward voltage at 3.0A	V _F	1.3							V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TA = 125°C	I _R	10 200							μA
Typical reverse recovery time (Note 1)	t _{rr}	150			250	500		ns	
Typical junction capacitance at 4.0V, 1MHz	C _J	60							PF

NOTES:

1. I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

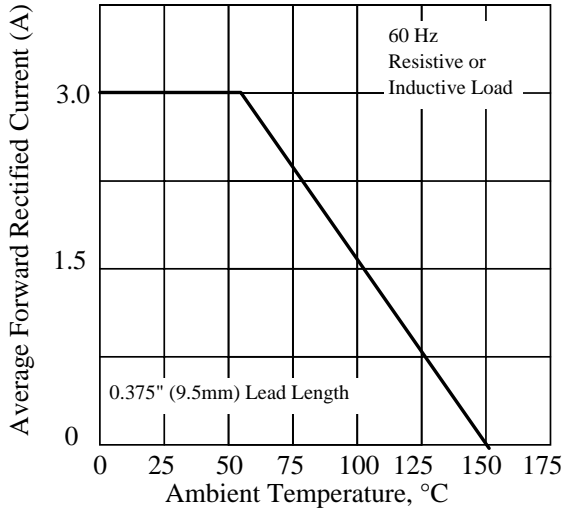


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

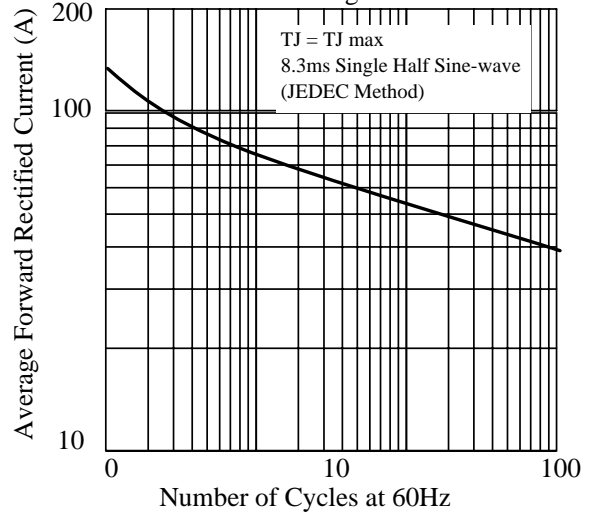


Fig 3. - Typical Instantaneous Forward Characteristics

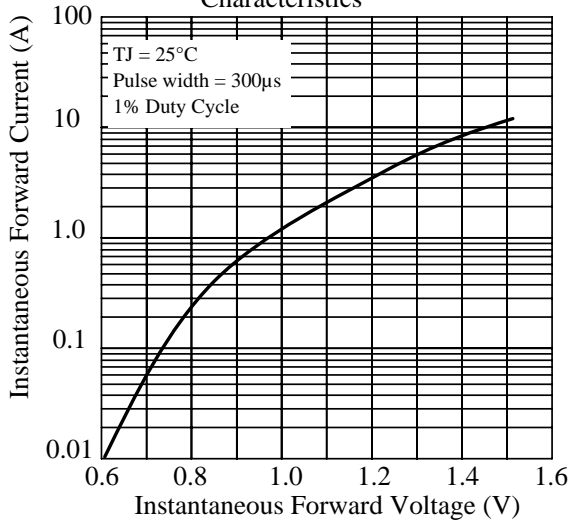


Fig 4. - Typical Reverse Characteristics

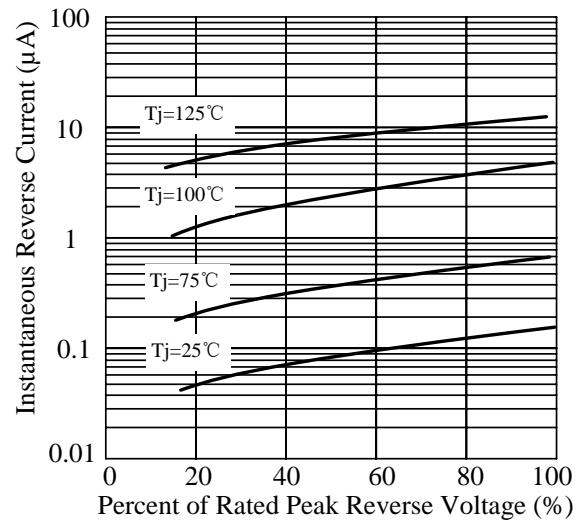


Fig 5. - typical transient thermal impedance

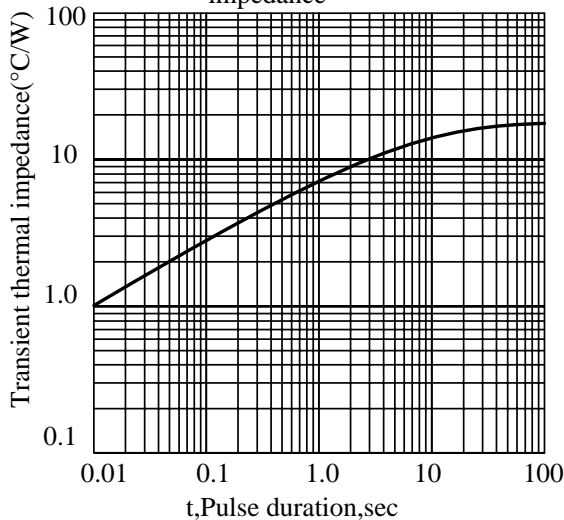
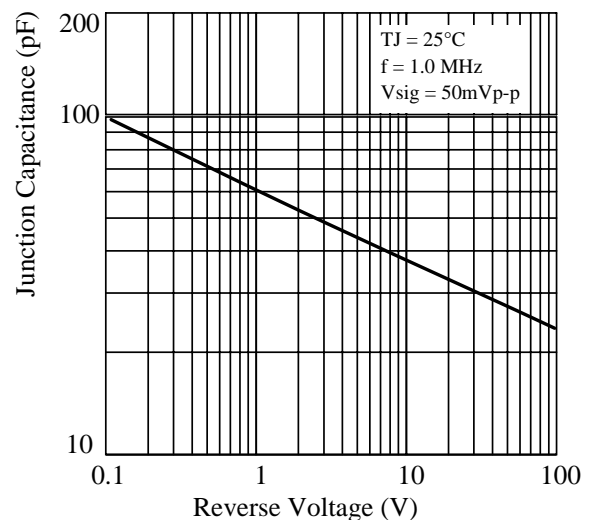
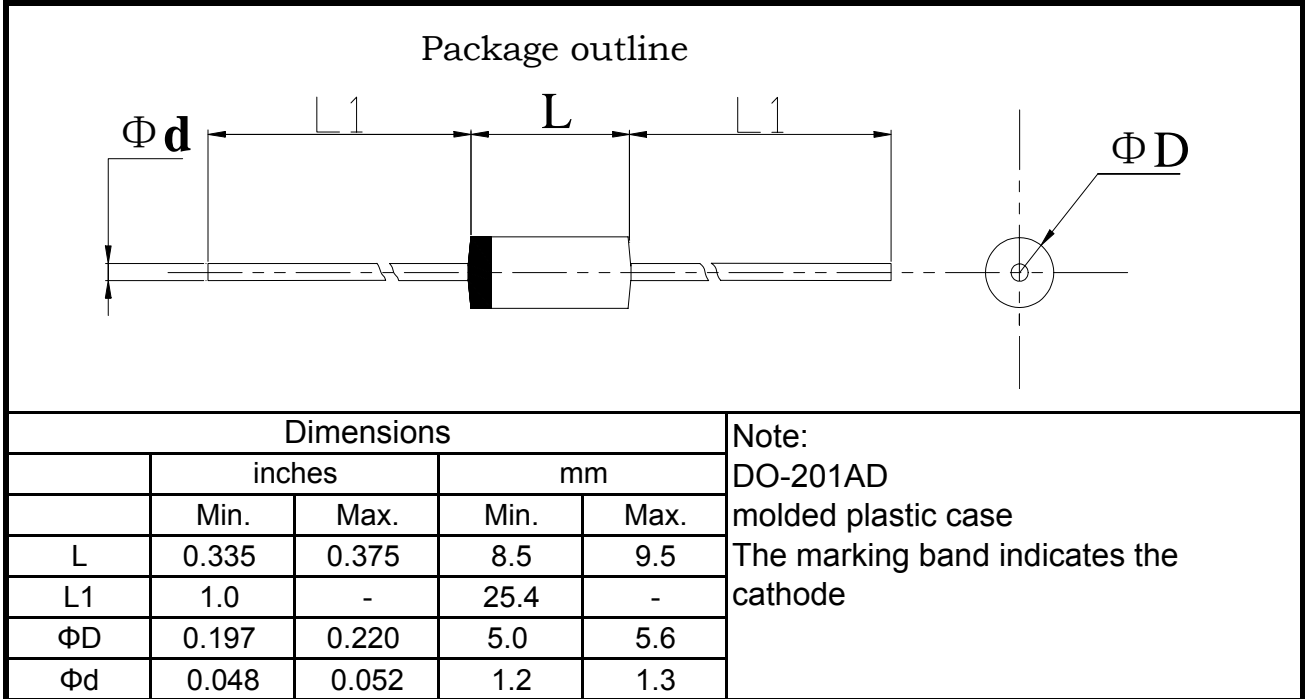


Fig 6. - Typical Junction Capacitance



5.Package Dimensions in inches and (millimeters)



单击下面可查看定价，库存，交付和生命周期等信息

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