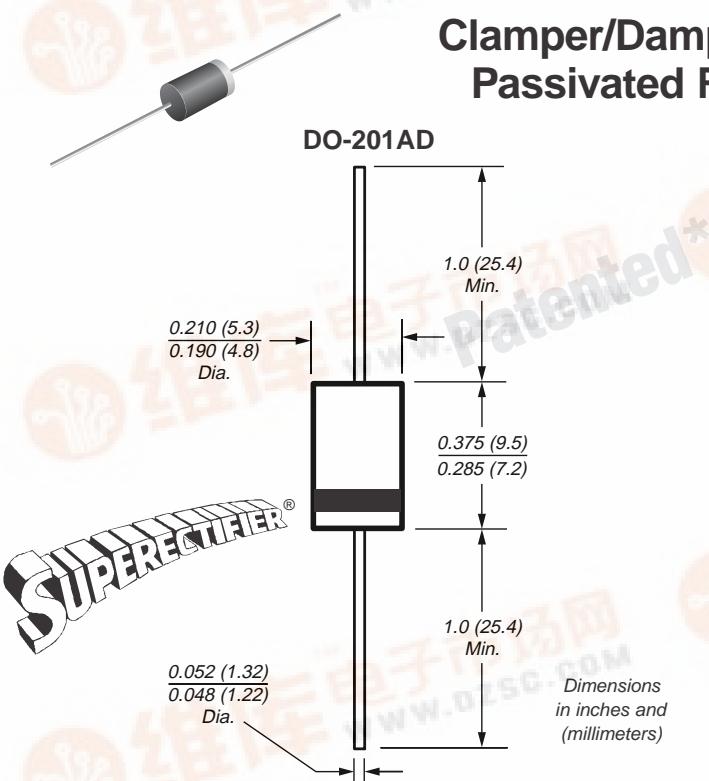




查询CGP30供应商

捷多邦，专业PCB打样工厂，24小时加急出货

**CGP30 and DGP30****New Product**Vishay Semiconductors  
formerly General Semiconductor**Clamper/Damper Glass Passivated Rectifier**

\*Glass-plastic encapsulation technique is covered by Patent No. 3,996,602 and brazed-lead assembly by Patent No. 3,930,306

**Reverse Voltage** 1400 to 1500V  
**Forward Current** 3.0A

**Features**

- Specially designed for clamping circuits, horizontal deflection systems and damper applications
- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- High temperature metallurgically bonded construction
- Cavity-free glass passivated junction
- 3.0 ampere operation at TA=50°C with no thermal runaway
- Typical IR less than 0.1µA
- Capable of meeting environmental standards of MIL-S-19500
- 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 oz., 1.12 g

**Packaging codes/options:**

1/Bulk - 1.5K per container, 15K per box

4/1.4K per 13" reel, 5.6K per box

23/1K per ammo mag., 9K per box

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

Parameter	Symbol	CGP30	DGP30	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	1400	1500	V
Maximum RMS voltage	V <sub>RMS</sub>	980	1050	V
Maximum DC blocking voltage	V <sub>DC</sub>	1400	1500	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA = 50°C	I <sub>F(AV)</sub>	3.0		A
Peak forward surge current 8.3ms single half sine wave superimposed on rated load (JEDEC Method) at TA = 50°C	I <sub>FSM</sub>	100		A
Maximum full load reverse current full cycle average 0.375" (9.5mm) lead length at TA = 70°C	I <sub>R(AV)</sub>	200		µA
Typical thermal resistance (Note 1)	R <sub>θJA</sub>	20		°C/W
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +175		°C

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

Parameter	Symbol	CGP30	DGP30	Unit
Maximum instantaneous forward voltage at 3.0A	V <sub>F</sub>	1.2		V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TA = 100°C	I <sub>R</sub>	5.0 100		µA
Maximum reverse recovery time at I <sub>F</sub> = 0.5A, I <sub>R</sub> = 50mA	t <sub>rr</sub>	15	20	µs
Maximum reverse recovery time at I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A typical maximum	t <sub>rr</sub>	1.0 2.0		µs
Typical junction capacitance at 4.0V, 1MHz	C <sub>J</sub>	40		pF

Note: (1) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, with leads attached to heat sink

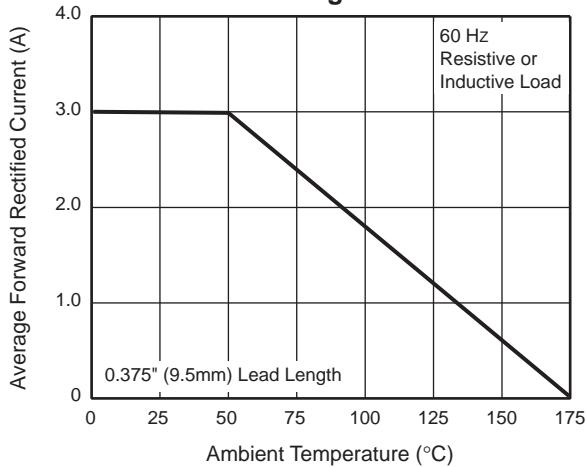
# CGP30 and DGP30

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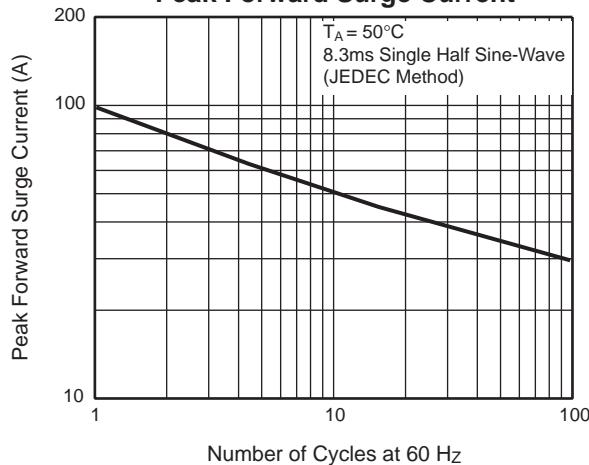


## Ratings and Characteristic Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

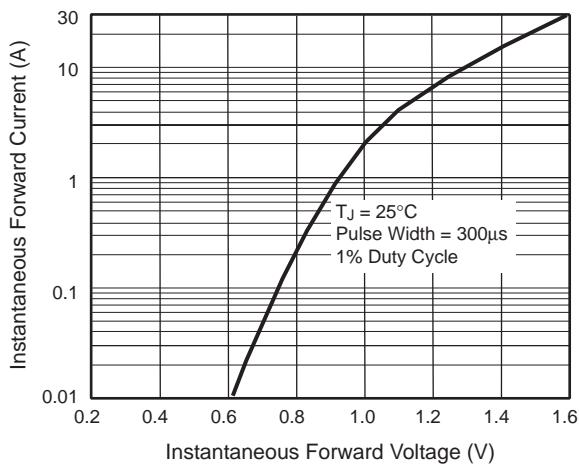
**Fig. 1 – Forward Current Derating Curve**



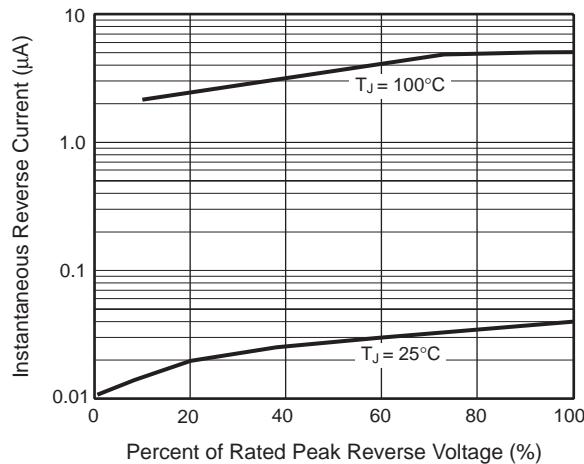
**Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current**



**Fig. 3 – Typical Instantaneous Forward Characteristics**



**Fig. 4 – Typical Reverse Characteristics**



**Fig. 5 – Typical Junction Capacitance**

