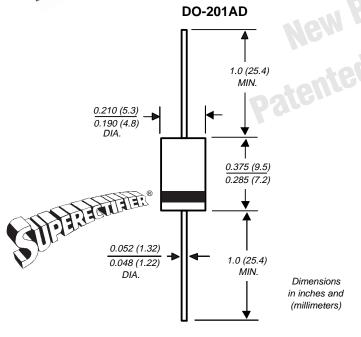
CGP30 and DGP30

Clamper/Damper Glass Passivated Rectifier

Reverse Voltage 1400 to 1500V Forward Current 3.0A



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

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 T_A=50°C with no thermal runaway
- Typical I_R 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 ounce, 1.12 grams

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

Parameter	Symbol	CGP30	DGP30	Unit
Maximum repetitive peak reverse voltage	Vrrm	1400	1500	V
Maximum RMS voltage	V _{RMS}	980	1050	V
Maximum DC blocking voltage	VDC	1400	1500	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A = 50°C	IF(AV)	3.0		А
Peak forward surge current 8.3ms single half sine wave superimposed on rated load (JEDEC Method) at T _A = 50°C	IFSM	100		А
Maximum full load reverse current full cycle average 0.375" (9.5mm) lead length at T _A = 70°C	IR(AV)	200		μΑ
Typical thermal resistance (Note 1)	Reja	20		°C/W
Operating junction and storage temperature range	TJ, TSTG	−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		VF	1.2		V
Maximum DC reverse current at rated DC blocking voltage	T _A = 25°C T _A = 100°C	lr	5.0 100		μΑ
Maximum reverse recovery time at IF = 0.5A, IR = 50mA		trr	15	20	μs
Typical junction capacitance at 4.0V, 1MHz		CJ	40		pF

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



Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

