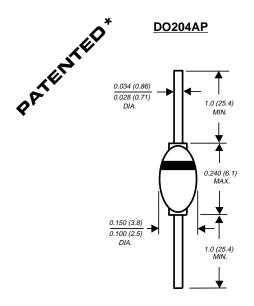
CG1 AND DG1

MINIATURE CLAMPER / DAMPER GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 1400 to 1500 Volts Forward Current - 1.5 Amperes



Dimensions in inches and (millimeters)

★ Brazed-lead assembly is covered by Patent No. 3,930,306

FEATURES

- Specially designed for clamping circuits horizontal deflection systems and damper applications
- ♦ High temperature metallurgically bonded construction
- Glass passivated cavity-free junction
- ◆ 1.5 Ampere operation at T_A=50°C with no thermal runaway
- Typical I_R less than 0.1μA
- Hermetically sealed package
- 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-204AP Solid glass body

Terminals: Solder plated axial leads, solderable per

MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.02 ounce, 0.56 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	CG1	DG1	UNITS
Maximum repetitive peak reverse voltage	VRRM	1400	1500	Volts
Maximum RMS voltage	VRMS	980	1050	Volts
Maximum DC blocking voltage	VDC	1400	1500	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =50°C	I(AV)	1.5		Amps
Peak forward surge current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	40.0		Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.1		Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	lR	5.0 100		μΑ
Maximum full load reverse current full cycle average 0.375" (9.5mm) lead length at T _A =100°C	IR(AV)	50.0		μΑ
Maximum reverse recovery time (NOTE 1)	t _{rr}	15.0	20.0	μs
Typical junction capacitance (NOTE 2)	CJ	15.0		pF
Typical thermal resistance (NOTE 3)	R⊖JA	55.0		°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +175		°C

NOTES

- (1) Reverse recovery test conditions: I_F=0.5A, I_R=50mA
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES CG1 AND DG1

FIG. 1 - FORWARD CURRENT DERATING **CURVE** 1.5 60 Hz AVERAGE FORWARD RECTIFIED CURRENT, AMPERES RESISTIVE OR INDUCTIVE LOAD 1.25 0.75 CAPACITANCE 0.5 LOAD 5.0 Ipk/I_{AV}= 0.25 0.375" (9.5mm) LEAD LENGTH 0 25 50 75 100 125 150 175 AMBIENT TEMPERATURE, °C

