CG3 AND DG3

CLAMPER / DAMPER GLASS PASSIVATED RECTIFIER

Reverse Voltage - 1400 to 1500 Volts Forward Current - 3.0 Amperes

DG3 1.0 (25.4) 0.200 (5.08) 0.120 (3.05) 0.300 (7.6) 0.052 (1.32) 0.048 (1.22) DIA. 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
- ♦ 3.0 Ampere operation at TA=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: 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: 0.04 ounce, 1.1 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOLS	CG3	DG3	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	1400	1500	Volts
Maximum RMS voltage	VRMS	980	1050	
Maximum DC blocking voltage	V _{DC}	1400	1500	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =50°C	I _(AV)	3.0		Amps
Peak forward surge current 8.3ms single half sinewave superimposed on rated load (JEDEC Method) at T _A =50°C	IFSM	100.0		Amps
Maximum instantaneous forward voltage at 3.0A	VF	1.2		Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	IR	5.0 100.0		μА
Maximum full load reverse current full cycle average, 0.375" (9.5mm) lead length at T _A =70°C	I _{R(AV)}	200.0		μΑ
Maximum reverse recovery time (NOTE 1)	trr	15.0	20.0	μs
Typical junction capacitance (NOTE 2)	СJ	40.0		pF
Typical thermal resistance (NOTE 3)	R⊝JA	20.0		°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +175		°C

(1) Measured with IF=0.5A, IR=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, with leads attached to heat sinks



RATINGS AND CHARACTERISTIC CURVES CG3 AND DG3









