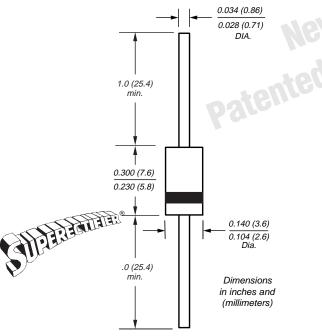


CGP15 and DGP15

Miniature Clamper/Damper Glass Passivated Rectifier

Reverse Voltage 1400 to 1500V Forward Current 1.5A

DO-204AC (DO-15)



* 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 Laboratory Flammability Classification 94V-0.
- High temperature metallurgically bonded construction
- · Cavity-free glass passivated junction
- 1.5 ampere operation at TA=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-204AC, 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: 0.015 ounce, 0.4 gram

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

Parameter	Symbol	CGP15	DGP15	Unit
Maximum repetitive peak reverse voltage	VRRM	1400	1500	V
Maximum RMS voltage	VRMS	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	lF(AV)	1.5		А
Peak forward surge current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	IFSM	40		А
Maximum full load reverse current full cycle average 0.375" (9.5mm) lead length at TA = 100°C	IR(AV)	50		μΑ
Typical thermal resistance (Note 1)	R⊝JA	55		°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	CGP15	DGP15	Unit
Maximum instantaneous forward v	oltage at 1.0A	VF	1.1		V
Maximum DC reverse current at rated DC blocking voltage	T _A = 25°C T _A = 100°C	IR	5.0 100		μА
Maximum reverse recovery time at I _F = 0.5A, I _R = 50mA		t _{rr}	15	20	μs
Typical junction capacitance at 4.0V, 1MHz		CJ	15		pF



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

