

DGP30W

DAMPER SINTERED GLASS JUNCTION PLASTIC RECTIFIER

VOLTAGE:1500V

CURRENT: 3.0A



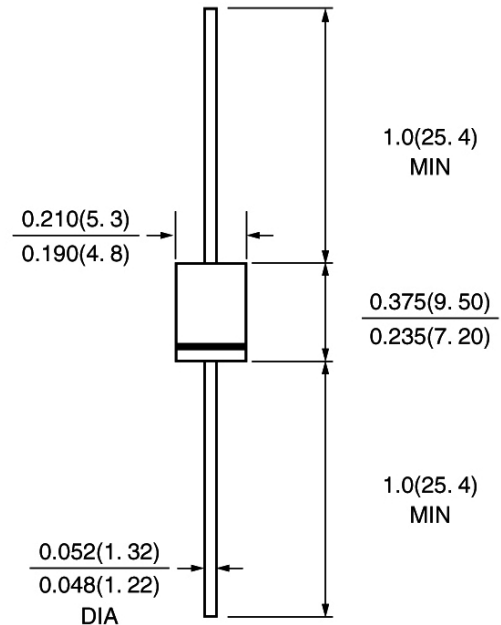
FEATURE

Specially designed for clamping circuits, horizontal deflection systems and damper applications
High temperature metallurgically bonded construction
3.0 ampere operation at Ta=50°C with no thermal runaway
Sintered glass cavity free junction
Capable of meeting environmental standard of MIL-S-19500
High temperature soldering guaranteed
350°C /10sec/0.375"lead length at 5 lbs tension
Operate at Ta =55°C with no thermal run away
Typical Ir<0.1μA

MECHANICAL DATA

Terminal: Plated axial leads solderable per
MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Flame
Retardant Epoxy
Polarity: color band denotes cathode
Mounting position: any

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,
for capacitive load, derate current by 20%)

	SYMBOL	DGP30W	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	1500	V
Maximum RMS Voltage	V _{rms}	1050	V
Maximum DC blocking Voltage	V _{dc}	1500	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =50°C	I _{f(av)}	3.0	A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load at Ta=50°C	I _{fsm}	100.0	A
Maximum Instantaneous Forward Voltage at 3.0A	V _f	1.2	V
Maximum full load reverse current full cycle average 0.375"(9.5mm) lead length at Ta=70°C	I _{r(av)}	200.0	μA
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	I _r	5.0 100.0	μA
Typical Reverse Recovery Time (Note 1)	T _{rr}	1.0	μS
Typical Junction Capacitance (Note 2)	C _j	40.0	pF
Typical Thermal Resistance (Note 3)	R _{th(ja)}	20.0	°C/W
Storage and Operating Junction Temperature	T _{stg} , T _j	-65 to +175	°C

Note:

1. Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V_{dc}
3. Thermal Resistance from Junction to Ambient at 0.375"(9.5mm) lead length, with leads attached to heat sink

Fig. 1 – Forward Current Derating Curve

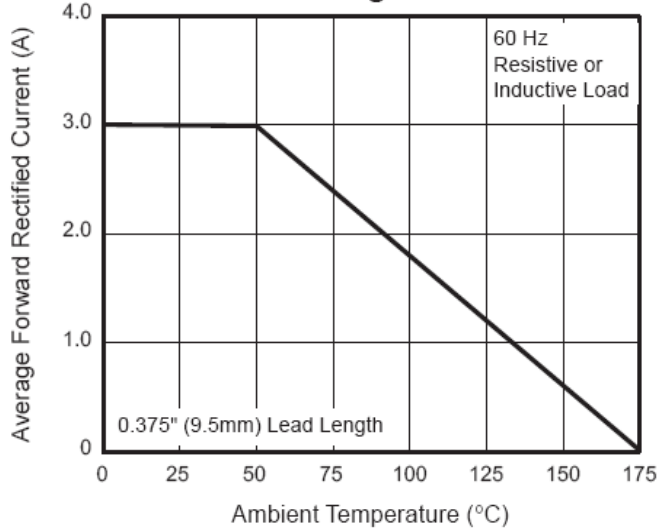


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

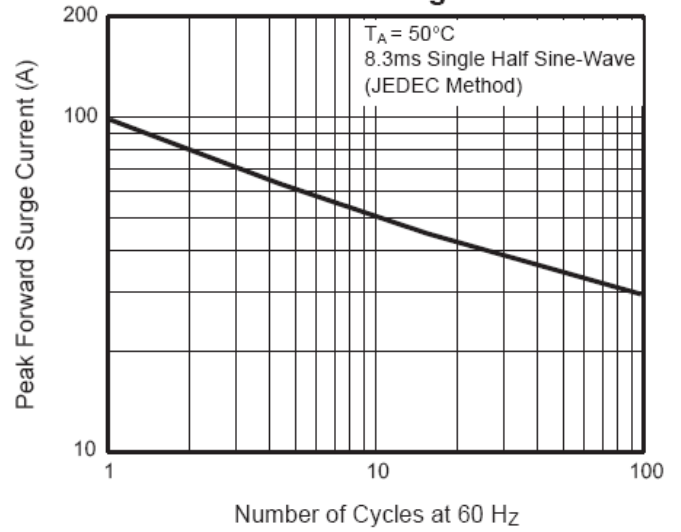


Fig. 3 – Typical Instantaneous Forward Characteristics

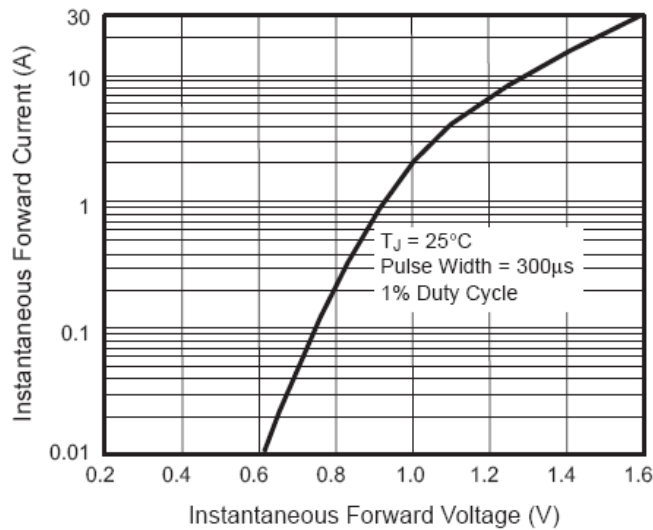


Fig. 4 – Typical Reverse Characteristics

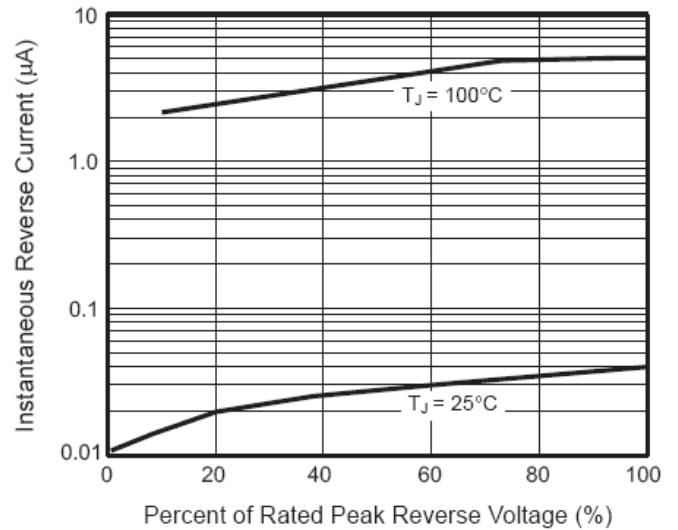


Fig. 5 – Typical Junction Capacitance

