

DGP30W

DAMPER SINTERED GLASS JUNCTION PLASTIC RECTIFIER

VOLTAGE:1500V

CURRENT: 3.0A

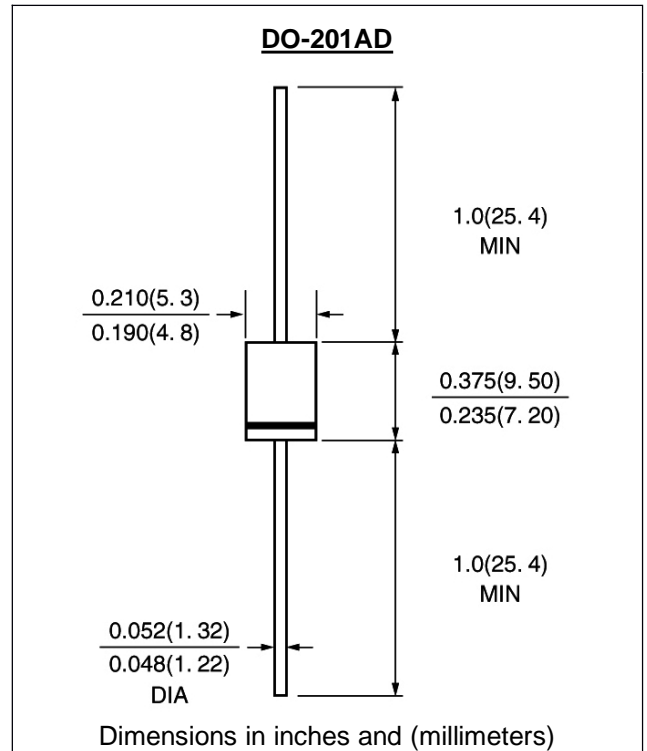


FEATURE

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



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	Vrrm	1500	V
Maximum RMS Voltage	Vrms	1050	V
Maximum DC blocking Voltage	Vdc	1500	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =50°C	If(av)	3.0	A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load at Ta=50°C	Ifsm	100.0	A
Maximum Instantaneous Forward Voltage at 3.0A	Vf	1.2	V
Maximum full load reverse current full cycle average 0.375"(9.5mm) lead length at Ta=70°C	Ir(av)	200.0	µA
Maximum DC Reverse Current at rated DC blocking voltage	Ir	5.0 100.0	µA
Typical Reverse Recovery Time (Note 1)	Trr	1.0	µS
Typical Junction Capacitance (Note 2)	Cj	40.0	pF
Typical Thermal Resistance (Note 3)	Rth(ja)	20.0	°C/W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	°C

- Note:
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
 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

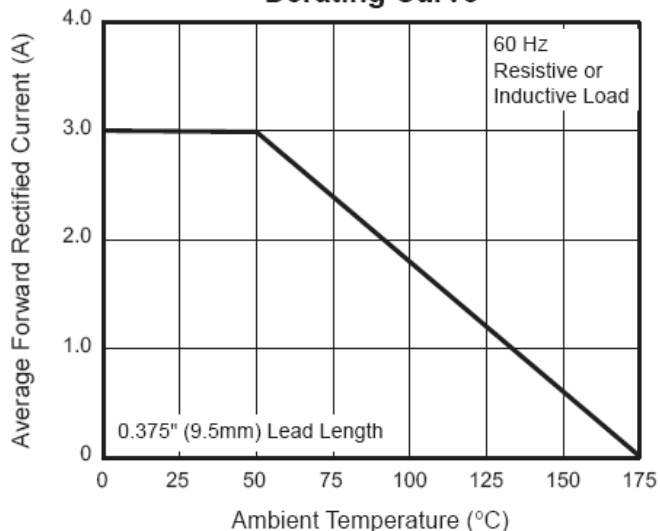


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

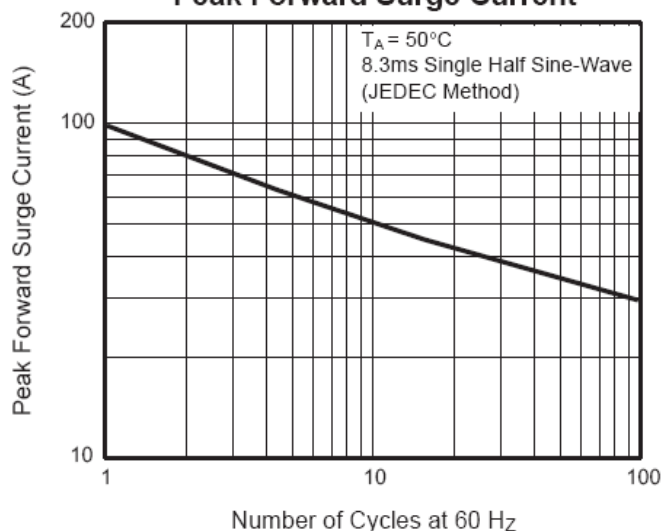


Fig. 3 – Typical Instantaneous Forward Characteristics

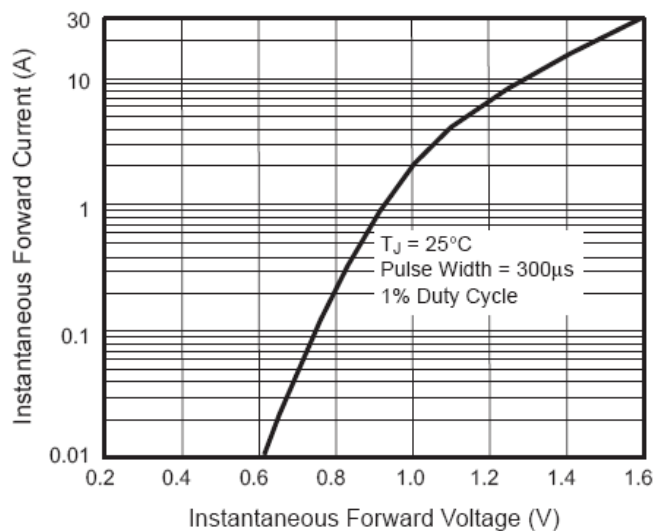


Fig. 4 – Typical Reverse Characteristics

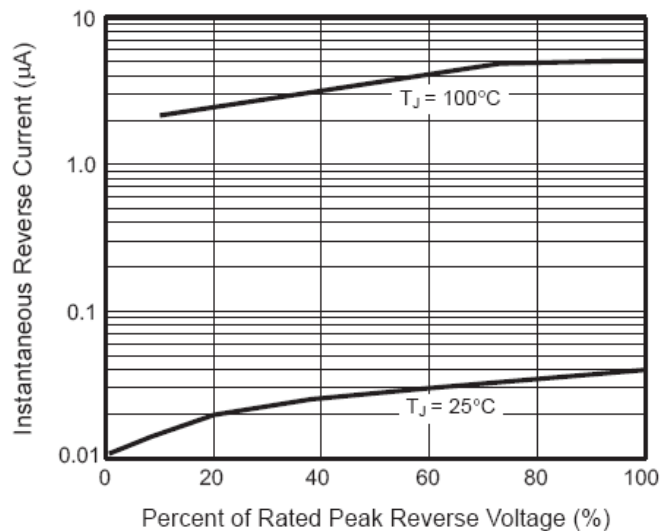


Fig. 5 – Typical Junction Capacitance

