

BYW96DGP THRU BYW96EGP

SINTERED GLASS JUNCTION

FAST SWITCHING PLASTIC RECTIFIER

VOLTAGE: 800 to 1000V

CURRENT: 3.0A

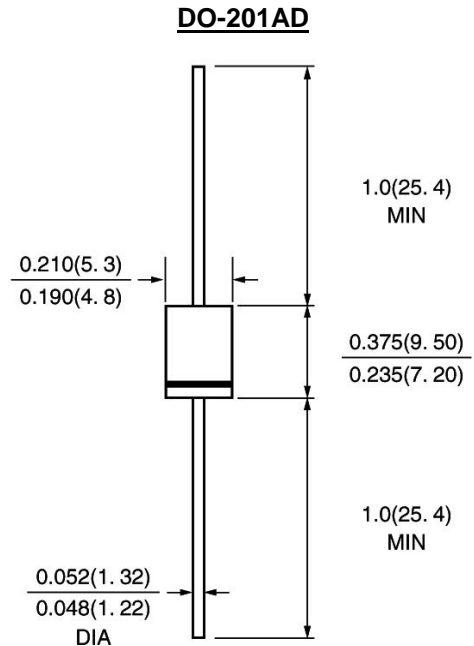


FEATURE

High temperature metallurgic ally bonded construction
 Sintered glass cavity free junction
 Capability 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 J-STD-002
 Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
 Polarity: color band denotes cathode
 Mounting position: any



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)

	Symbol	BYW96DGP	BYW96EGP	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	800	1000	V
Maximum RMS Voltage	V _{rms}	560	700	V
Maximum DC blocking Voltage	V _{dc}	800	1000	V
Reverse avalanche breakdown voltage at IR = 0.1 mA	V _{(BR)R}	900min	1100min	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	I _{f(av)}	3.0		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	70		A
Maximum Forward Voltage at rated Forward Current	V _f	1.50		V
Non-repetitive peak reverse avalanche energy (Note 1)	E _{rs}	10		mJ
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =150°C	I _r	5.0	150	μA
Maximum Reverse Recovery Time (Note 2)	T _{rr}	300		nS
Typical Junction Capacitance (Note 3)	C _j	60		pF
Typical Thermal Resistance (Note 4)	R _{th(ja)}	16		°C /W
Storage and Operating Junction Temperature	T _{stg, Tj}	-65 to +175		°C

Note: 1.R=400mA; Tj=Tjmax prior to surge; inductive load switched off
 2.Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
 3.Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
 4.Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES BYW96DGP THRU BYW96EGP

