

BYW96D THRU BYW96E

**SINTERED GLASS JUNCTION
FAST SWITCHING PLASTIC RECTIFIER**
VOLTAGE:800 TO 1000V CURRENT: 3.0A

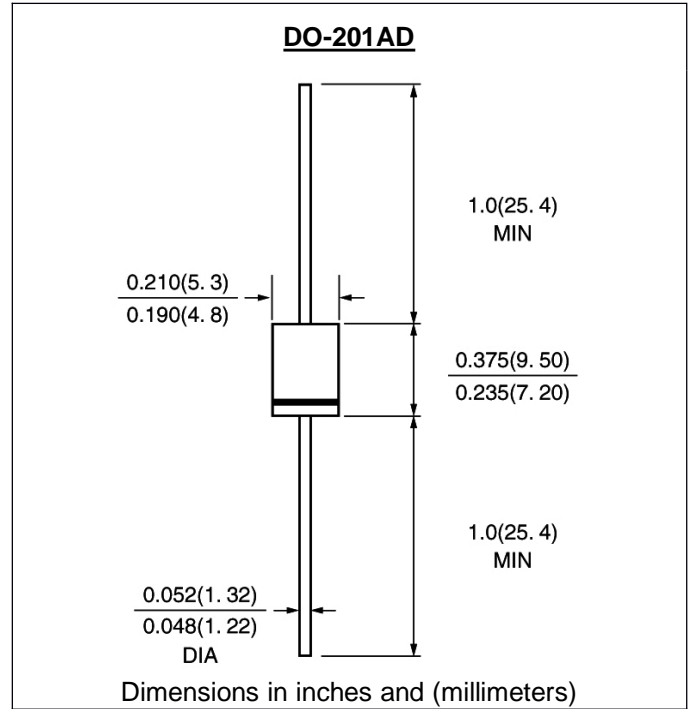


FEATURE

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 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)

	SYMBOL	BYW96D	BYW96E	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} (min)	900	1100	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 and 25°C	V _f	1.50		V
Non-repetitive peak reverse avalanche energy (Note 1)	E _{rsm}	10		mJ
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =150°C	I _r	5.0 150		µA 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(ja)	16		°C /W
Storage and Operating Junction Temperature	T _{stg} , T _j	-65 to +175		°C

Note: 1.R=400mA; T_j=T_{jmax} prior to surge; inductive load switched off
2.Reverse Recovery Condition I_f=0.5A, I_r=1.0A, I_{rr}=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

