

# BYT56AGP THRU BYT56MGP

**SINTERED GLASS JUNCTION  
FAST SWITCHING PLASTIC RECTIFIER**  
VOLTAGE:50 TO 1000V      CURRENT: 3.0A

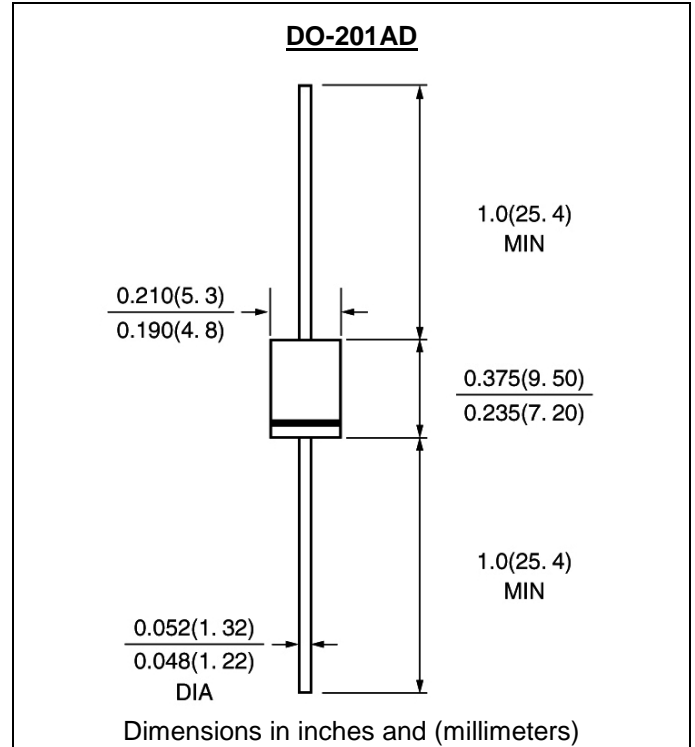


## FEATURE

High temperature metallurgically 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	BYT56 AGP	BYT56 BGP	BYT56 DGP	BYT56 GGP	BYT56 JGP	BYT56 KGP	BYT56 MGP	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	I <sub>f(av)</sub>	3.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	125							A
Maximum Forward Voltage at rated Forward Current and 25°C	V <sub>f</sub>	1.4							V
non-repetitive reverse avalanche energy (I <sub>(BR)R</sub> =0.4A)	E <sub>R</sub>	10							mJ
Maximum full load reverse current full cycle average at 55°C Ambient	I <sub>r(av)</sub>	100							µA
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =150°C	I <sub>r</sub>	5.0 100							µA µA
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	100							nS
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	60							pF
Typical Thermal Resistance (Note 3)	R(ja)	20							°C/W
Storage and Operating Junction Temperature	T <sub>stg</sub> , T <sub>j</sub>	-65 to +175							°C

Note: 1.Reverse Recovery Condition I<sub>f</sub> =0.5A, I<sub>r</sub> =1.0A, I<sub>rr</sub> =0.25A  
2.Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc  
3.Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES BYT56AGP THRU BYT56MGP

