## **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**

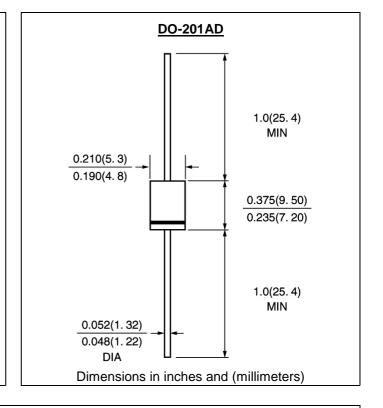
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

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)

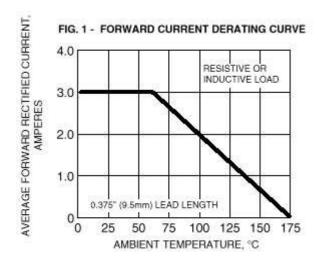
	SYMBOL	BYT56 AGP	BYT56 BGP	BYT56 DGP	BYT56 GGP	BYT56 JGP	BYT56 KGP	BYT56 MGP	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)				3.0				А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	125							А
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.4							V
non-repetitive reverse avalanche energy (I <sub>(BR)R</sub> =0.4A)	ER	10							mJ
Maximum full load reverse current full cycle average at 55°C Ambient	Ir(av)	100							μΑ
Maximum DC Reverse Current Ta =25°C	Ir	5.0							μΑ
at rated DC blocking voltage Ta =150°C	"		100						μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	100							nS
Typical Junction Capacitance (Note 2)	Cj	60							pF
Typical Thermal Resistance (Note 3)	R(ja)	20							°C /W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175							°C

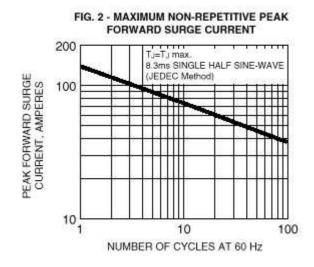
Note: 1.Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

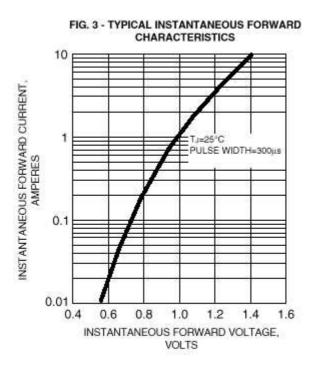
- 2.Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3.Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

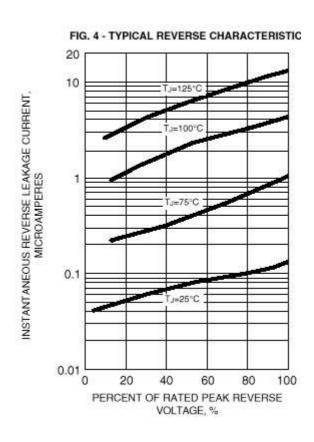
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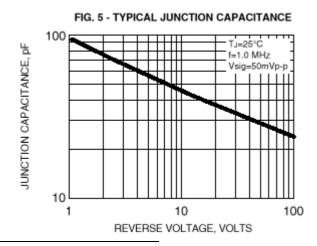
#### RATINGS AND CHARACTERISTIC CURVES BYT56AGP THRU BYT56MGP











<sup>1</sup> Rev.A1 www.gulfsemi.com