BYV95AGP THRU BYV95CGP

SINTERED GLASS JUNCTION FAST SWITCHING PLASTIC RECTIFIER TAGE 200 TO 600V

VOLTAGE:200 TO 600V CURRENT: 1.5A



FEATURE

High temperature metallurgically bonded construction Sintered glass cavity free junction Capability of meeting environmental standard of MIL-S-19500 High temperature soldering guaranteed $350^{\circ}\text{C}/10\text{sec}/0.375^{\circ}\text{lead}$ length at 5 lbs tension Operate at Ta =55°C with no thermal run away Typical Ir<0.1µA

MECHANICAL DATA

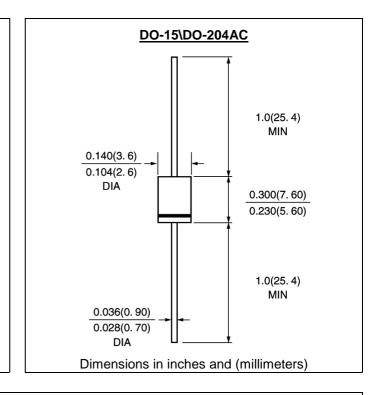
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

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)

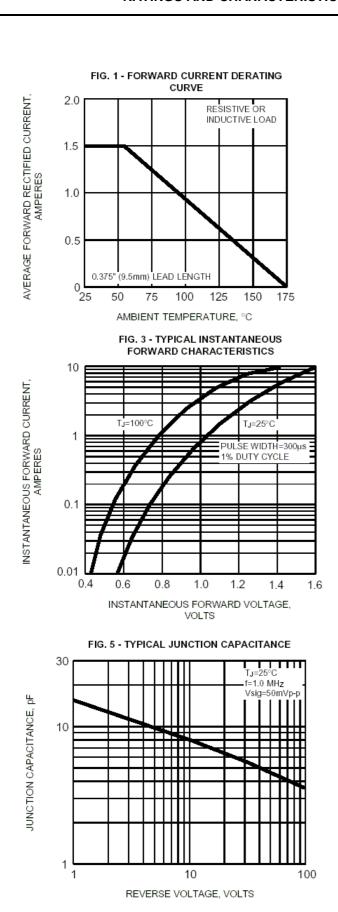
	SYMBOL	BYV 95AGP	BYV 95BGP	BYV 95CGP	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	400	600	V
Maximum RMS Voltage	Vrms	140	280	420	V
Maximum DC blocking Voltage	Vdc	200	400	600	V
reverse avalanche breakdown voltage at IR = 0.1 mA	V _{(BR)R} (min)	300	500	700	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =65°C	If(av)	1.5			А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	35.0			Α
Maximum Forward Voltage at rated Forward Current and 25°C IF=3A	Vf	1.60			V
non-repetitive peak reverse avalanche energy (Note 1)	Ersm	10			mJ
Maximum DC Reverse Current Ta =25°C	lr	5.0			μΑ
at rated DC blocking voltage Ta =150°C	150				μΑ
Maximum Reverse Recovery Time (Note 2)	Trr	250			nS
Typical Junction Capacitance (Note 3)	Cj	45.0			pF
Typical Thermal Resistance (Note 4)	R(ja)	46.0			°C /W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175			°C

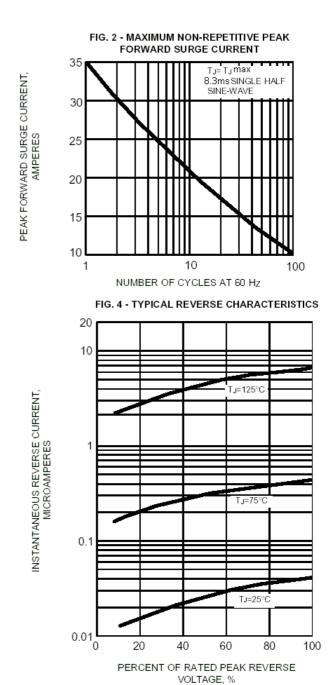
Note: 1. L = 120 mH; Tj = Tj max prior to surge; inductive load switched off

- 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

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RATINGS AND CHARACTERISTIC CURVES BYV95AGP THRU BYV95CGP





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