

BYV95AGP THRU BYV95CGP

**SINTERED GLASS JUNCTION
FAST SWITCHING PLASTIC RECTIFIER**
VOLTAGE: 200 TO 600V CURRENT: 1.5A



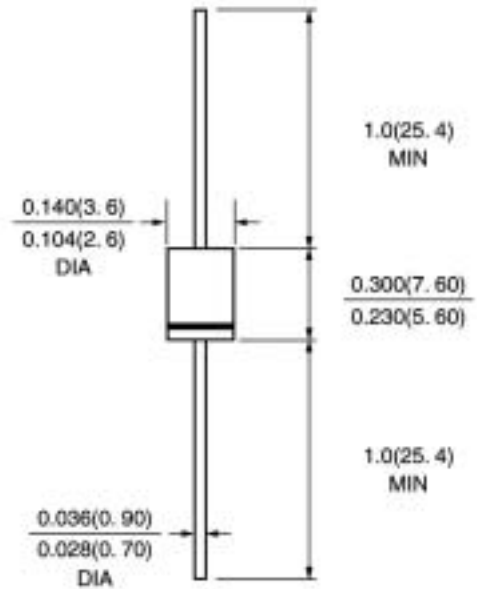
FEATURE

High temperature metallurgically bonded construction
Sintered glass cavity free junction
Capability of meeting environmental standard of MIL-S-19500
High temperature soldering guaranteed
350°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

DO-15/DO-204C



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	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			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	35.0			A
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 at rated DC blocking voltage Ta = 150°C	Ir	5.0 150			µA µA
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

RATINGS AND CHARACTERISTIC CURVES BYV95AGP THRU BYV95CGP

