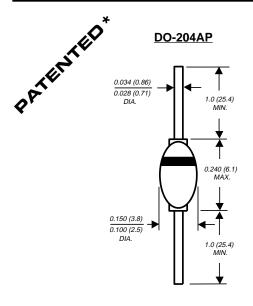
BYV95 AND BYV96 SERIES

MINIATURE GLASS PASSIVATED FAST SWITCHING RECTIFIER

Reverse Voltage - 200 to 1000 Volts Forward Current - 1.5 Amperes



Dimensions in inches and (millimeters)

* Brazed-lead assembly is covered by Patent No. 3,930,306

FEATURES

- High temperature metallurgically bonded construction
- ♦ Hermetically sealed package
- ◆ Glass passivated cavity-free junction
- ◆ 1.5 Ampere operation at T_A=55°C with no thermal runaway
- Typical IR less than 0.1μA
- Capable of meeting environmental standards of MIL-S-19500
- ◆ Fast switching for high efficiency
- High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-204AP solid glass body

Terminals: Solder plated axial leads, solderable per

MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.02 ounce, 0.56 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	BYV95A	BYV95B	BYV95C	BYV96D	BYV96E	UNITS
Maximum recurrent peak reverse voltage	VRRM	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	200	400	600	800	1000	Volts
Minimum avalanche breakdown voltage at 100µ	A V(BR)	300	500	700	900	1100	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =55°C	I(AV)			1.5			Amps
Peak forward surge current, 10ms single half sir wave superimposed on rated load at T _J =165°C	ne- IFSM	35.0					Amps
Maximum instantaneous forward voltage at 1.5A TJ=25°C TJ=165°C	VF			1.6 1.35			Volts
Maximum full load reverse current, full cycle average, 0.375", (9.5mm) T _J =25°C lead length at T _J =165°C	I _{R(AV)}	1.0 150.0					μΑ
Maximum DC reverse current at rated DC blocking voltage	IR	2.0				μА	
Maximum reverse recovery time (NOTE 1)	trr		250		(300	ns
Typical junction capacitance (NOTE 2)	CJ	10.0			pF		
Typical thermal resistance (NOTE 3)	R⊝JA	55.0			°C/W		
Operating junction temperature range	TJ	-65 to +175					°C
Storage temperature range	Tstg	-65 to +200				°C	

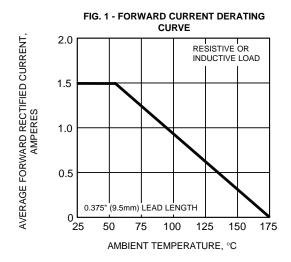
NOTES: (1) Measured with IF=0.5A, IR=1.0A, Irr=0.25A

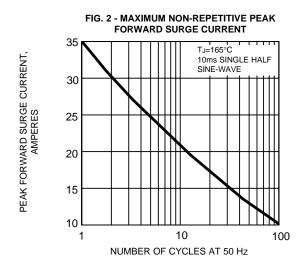
(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

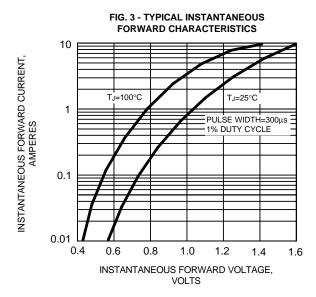


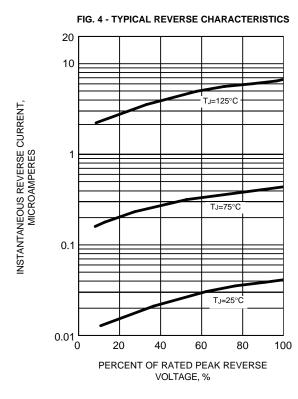
⁽³⁾ Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

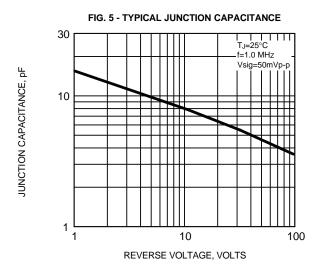
RATINGS AND CHARACTERISTIC CURVES BYV95 AND BYV96 SERIES













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