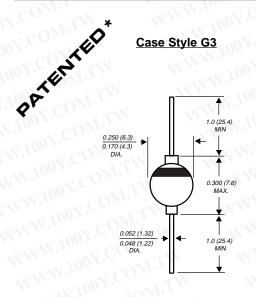
BYW72 THRU BYW76 SERIES

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER

Reverse Voltage - 200 to 600 Volts Forward Current - 3.0 Amperes



Dimensions in inches and (millimeters)

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

FEATURES

- High temperature metallurgically bonded construction
- ◆ Glass passivated cavity-free junction
- Hermetically sealed package
- ◆ 3.0 ampere operation at T_A=45°C with no thermal runaway
- Typical IR less than 0.1μA
- ◆ Capable of meeting environmental standards of MIL-S-19500
- ◆ High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: 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:** 0.04 ounce, 1.1grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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WWW. ON CO. TW	SYMBOLS	BYW72	BYW73	BYW74	BYW75	BYW76	UNITS
Maximum repetitive peak reverse voltage	VRRM	200	300	400	500	600	Volts
Maximum RMS voltage	VRMS	140	210	280	350	420	Volts
Maximum DC blocking voltage	VDC	200	300	400	500	600	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =45°C	I _(AV)	A.100 X.	COM.TY	3.0	WWW.	100 Y.C.	Amps
Peak forward surge current 10ms single half sine-wave superimposed on rated load at T _J =150°C	IFSM	M. 100	Y.COM.	60.0	MM	W.100Y.	Amps
Maximum instantaneous forward voltage at 3.0A	VF	1/1/4	WY.COm	1.1	W	100	Volts
Maximum average reverse current at rated peak reverse voltage at T _A =100°C	IR(AV)	WWW.	OON.COP	50.0	W	M.M.10	μА
Maximum DC reverse current at rated DC blocking voltage	IR	WWW.100 COM 5.0					μА
Maximum reverse recovery time (NOTE 1)	trr	WW	N. In	200	N	WWW	ns
Typical junction capacitance (NOTE 2)	CJ	- TX	11.100	40.0	-XX	WWV	pF
Typical thermal resistance (NOTE 3)	RΘJA	A	V. 100 x	22.0	- ×1	-133	°C/W
Operating junction temperature range	ŢĴ	11	100	-65 to +175	5.77	11	~~°C
Storage temperature range	Tstg	V	W 1	-65 to +300	TW		°C

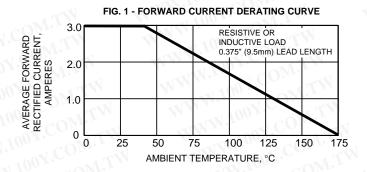
NOTES

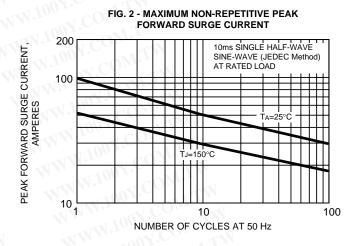
- (1) Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_{rr} = 0.25A
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, with both leads attached to heat sink

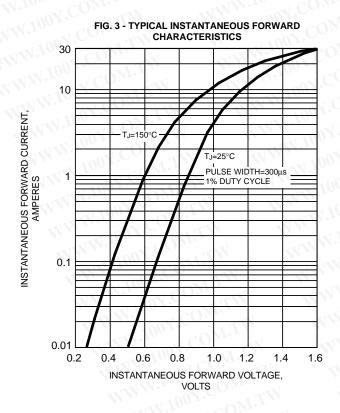
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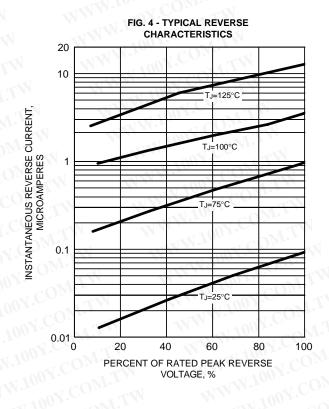


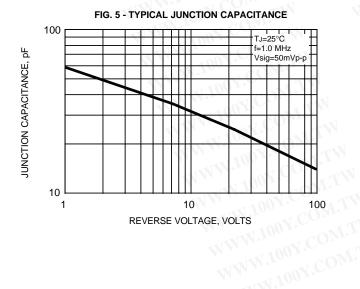
RATINGS AND CHARACTERISTIC CURVES BYW72 THRU BYW76 SERIES











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