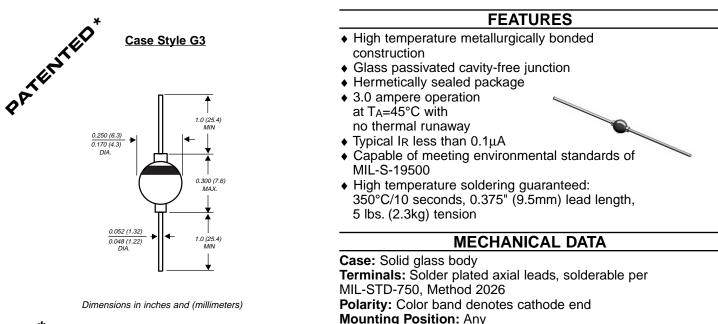
BYW72 THRU BYW76 SERIES

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER

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



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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Weight: 0.04 ounce, 1.1 grams

Ratings at 25°C ambient temperature unless otherwise specified.

	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 Ta=45°C	I(AV)			3.0			Amps
Peak forward surge current 10ms single half sine-wave superimposed on rated load at TJ=150°C	IFSM	60.0					Amps
Maximum instantaneous forward voltage at 3.0A	VF	1.1					Volts
Maximum average reverse current at rated peak reverse voltage at TA=100°C	IR(AV)	50.0					μA
Maximum DC reverse current at rated DC blocking voltage	IR	5.0					μA
Maximum reverse recovery time (NOTE 1)	trr	200					ns
Typical junction capacitance (NOTE 2)	CJ	40.0					pF
Typical thermal resistance (NOTE 3)	Røja	22.0					°C/W
Operating junction temperature range	TJ	-65 to +175					°C
Storage temperature range	Tstg			-65 to +300)		°C

NOTES:

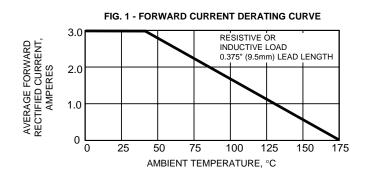
(1) Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr = 0.25A

(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, with both leads attached to heat sink



RATINGS AND CHARACTERISTIC CURVES BYW72 THRU BYW76 SERIES



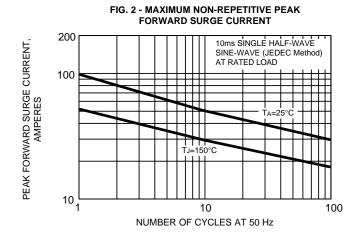


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS 30 10 INSTANTANEOUS FORWARD CURRENT, AMPERES TJ=150°C Tj=25°C PULSE WIDTH=300µs 1 1% DUTY CYCLE 0.1 0.01 0.2 0.4 0.6 0.8 1.2 1.4 1.6 1.0 INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG. 5 - TYPICAL JUNCTION CAPACITANCE

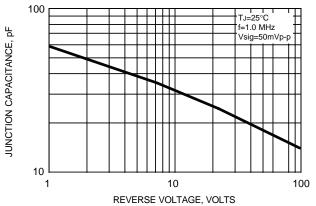


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

