

BYVF32 Series

PRV : 50 - 200 Volts
Io : 18 Ampere

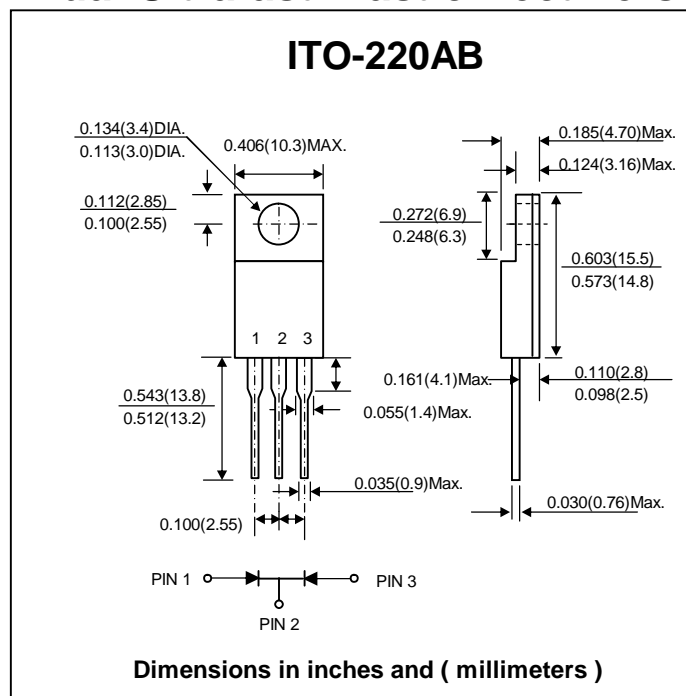
FEATURES :

- * High current capability
- * High surge current capability
- * Low leakage, high voltage
- * Glass passivated chip junction
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : Epoxy, Molded
- * Lead Temperature for Soldering Purposes:
260°C Max. for 10 Seconds
- * Polarity: As marked
- * Mounting Position: Any
- * Weight : 2.24 grams (Approximately)

Dual Ultrafast Plastic Rectifiers



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ta = 25°C unless otherwise specified.)

RATING	SYMBOL	BYVF32-50	BYVF32-100	BYVF32-150	BYVF32-200	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	V
Maximum Average Forward Current, T _c = 100°C	I _{F(AV)}	18				A
Maximum Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at T _c = 100°C	I _{FSM}	150				A
Maximum Instantaneous Forward Voltage per Leg at I _F = 20A I _F = 5.0A, T _j = 100°C	V _F	1.15 0.85				V
Maximum Reverse Current per Leg at Rated DC Blocking Voltage	I _R I _{R(H)}	10 (T _c = 25°C) 600 (T _c = 100°C)				μA
Maximum Reverse Recovery Time per Leg (I _F = 1A, V _R = 30V, di/dt = 100A/μs, I _{rr} = 10%I _{RM})	T _{rr}	35				ns
Typical junction capacitance at 4V, 1MHz	C _j	85				pF
Maximum Thermal Resistance, Junction to Case	R _{θJC}	3.0				°C/W
Operating storage and temperature range	T _J , T _{STG}	- 55 to + 150				°C

RATING AND CHARACTERISTIC CURVES (BYVF32 Series)

FIG.1 - FORWARD CURRENT DERATING CURRENT

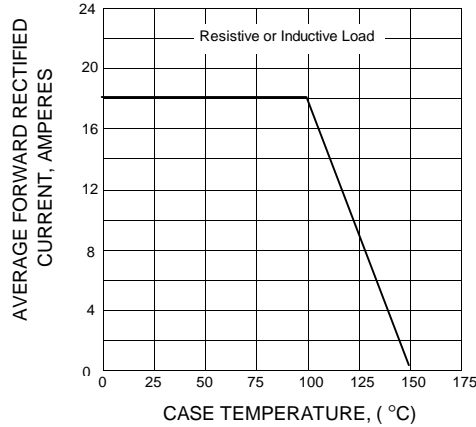


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

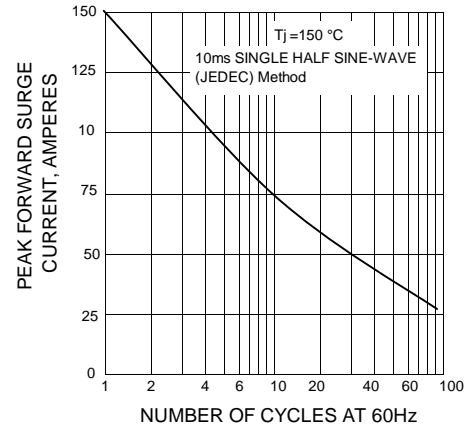


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

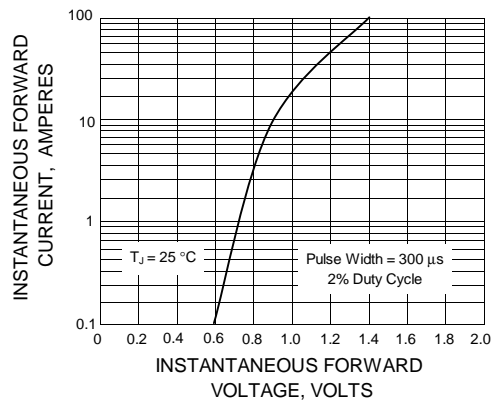


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

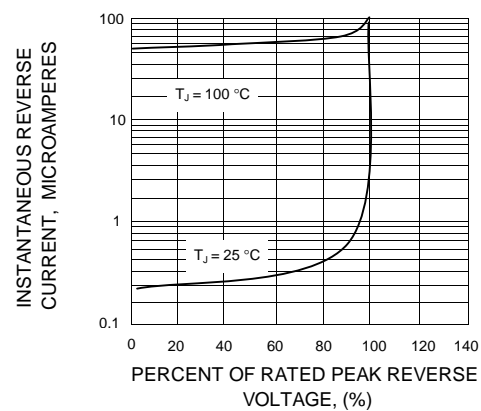


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

