

BYV29F Series

PRV : 300 - 400 Volts

Io : 8 Ampere

FEATURES :

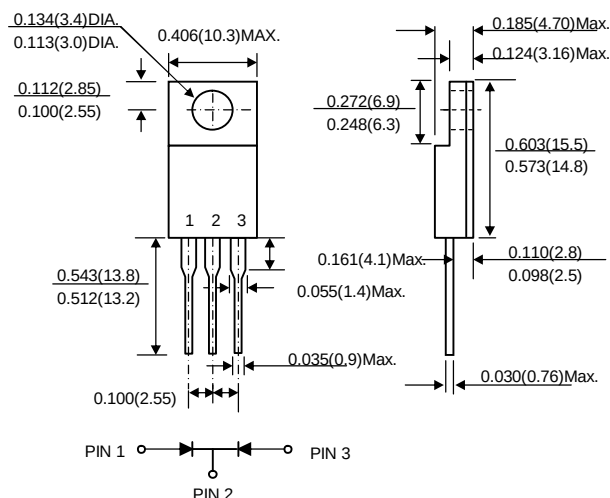
- * Ideally suited for free wheeling diode power factor correction applications
- * Soft recovery characteristics
- * Excellent high temperature switching
- * Glass passivated chip junction
- * **Pb / RoHS Free**

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

ITO-220AB



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

RATING	SYMBOL	BYV29F-300	BYV29F-400	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	300	400	V
Maximum Working Peak Reverse Voltage	VRWM	300	400	V
Maximum RMS Voltage	VRMS	210	280	V
Maximum DC Blocking Voltage	VDC	300	400	V
Maximum Average Forward Current, Tc = 100°C	IF(AV)	8.0		A
Maximum Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	110		A
Maximum Instantaneous Forward Voltage per Leg at IF = 8 A, Tj = 25°C IF = 8 A, Tj = 150°C IF = 20 A, Tj = 25°C	VF	1.25 1.03 1.40		V
Maximum Reverse Current per Leg at Working Peak Reverse Voltage	IR IR(H)	10 (Tc = 25°C) 350 (Tc = 100°C)		µA
Maximum Reverse Recovery Time per Leg (IF = 0.5A, IR = 1.0A, Irr = 0.25A)	Trr	35		ns
Maximum Thermal Resistance, Junction to Case	RθJC	5.5		°C/W
Operating storage and temperature range	TJ, TSTG	- 40 to + 150		°C

RATING AND CHARACTERISTIC CURVES (BYV29F Series)

FIG.1 - MAXIMUM FORWARD CURRENT DERATING CURRENT

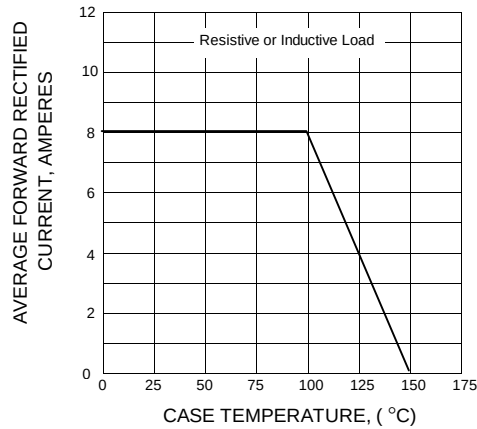


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

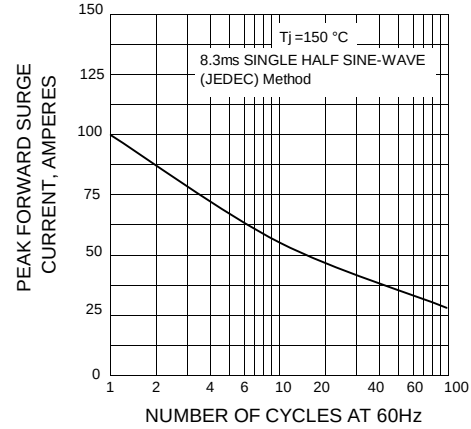


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

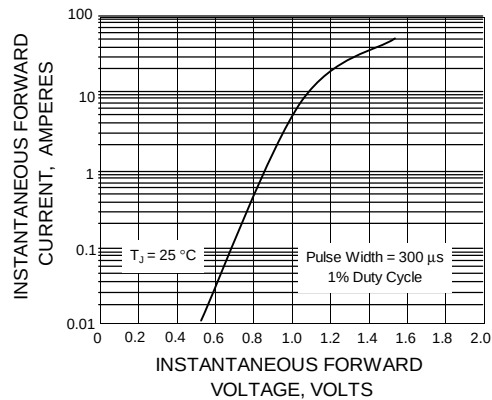


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS

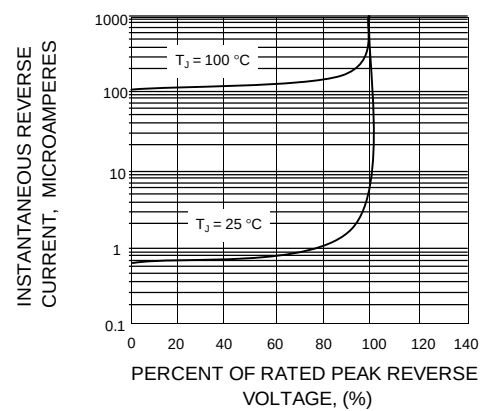


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

