

BYV29F Series

PRV : 300 - 400 Volts

I_o : 8 Ampere

FEATURES :

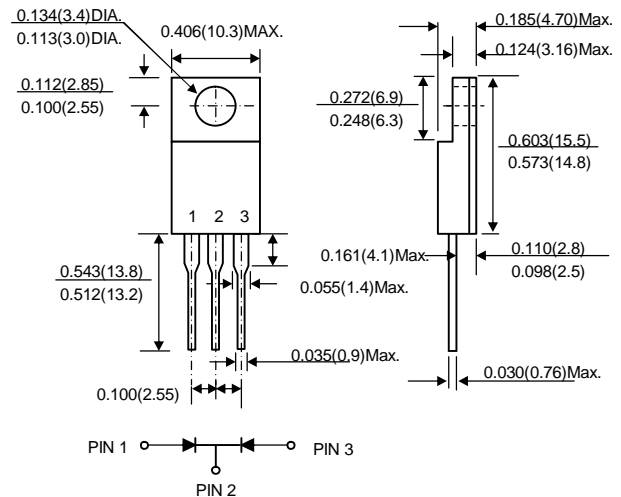
- * Ideally suited for free wheeling diode power factor correction applications
- * Soft recovery characteristics
- * Excellent high temperature switching
- * Glass passivated chip junction
- * **Pb / RoHS Free**

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



Dimensions in inches and (millimeters)

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

RATING	SYMBOL	BYV29F-300	BYV29F-400	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	300	400	V
Maximum Working Peak Reverse Voltage	V _{RWM}	300	400	V
Maximum RMS Voltage	V _{RMS}	210	280	V
Maximum DC Blocking Voltage	V _{DC}	300	400	V
Maximum Average Forward Current, T _c = 100°C	I _{F(AV)}	8.0		A
Maximum Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	110		A
Maximum Instantaneous Forward Voltage per Leg at I _F = 8 A, T _j = 25°C I _F = 8 A, T _j = 150°C I _F = 20 A, T _j = 25°C	V _F	1.25 1.03 1.40		V
Maximum Reverse Current per Leg at Working Peak Reverse Voltage	I _R I _{R(H)}	10 (T _c = 25°C) 350 (T _c = 100°C)		μA
Maximum Reverse Recovery Time per Leg (I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A)	T _{rr}	35		ns
Maximum Thermal Resistance, Junction to Case	R _{θJC}	5.5		°C/W
Operating storage and temperature range	T _J , T _{STG}	- 40 to + 150		°C

RATING AND CHARACTERISTIC CURVES (BYV29F Series)

FIG.1 - MAXIMUM FORWARD CURRENT DERATING CURRENT

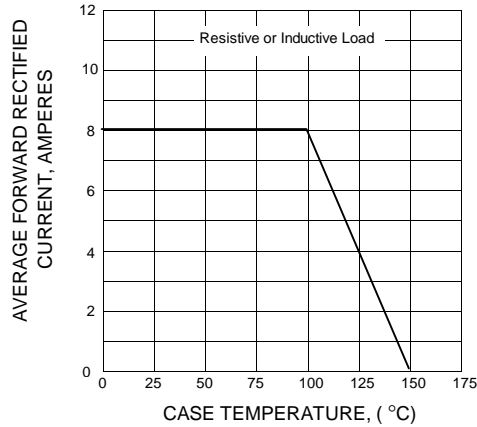


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

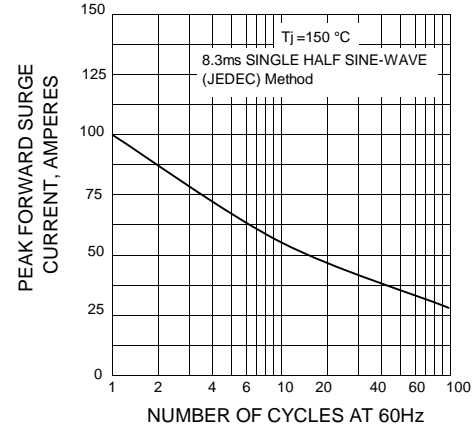


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

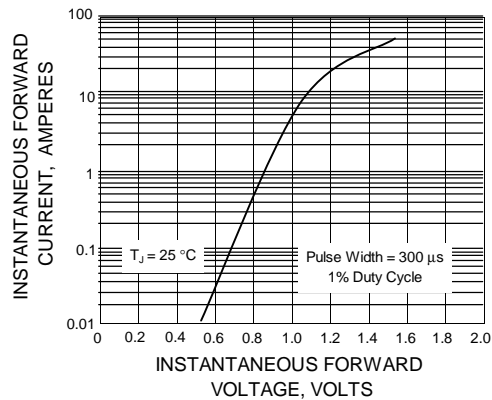


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS

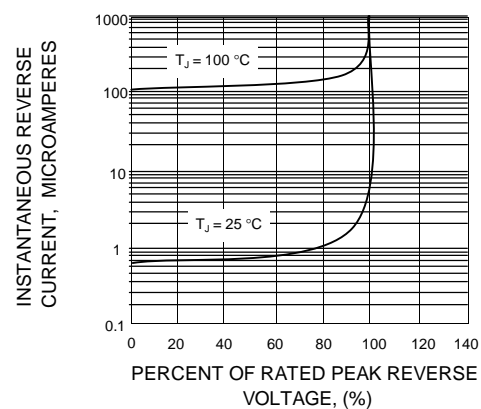


FIG. 5 – TYPICAL JUNCTION CAPACITANCE

