

BYQ28EF Series

PRV : 100 - 200 Volts
I_o : 10 Ampere

FEATURES :

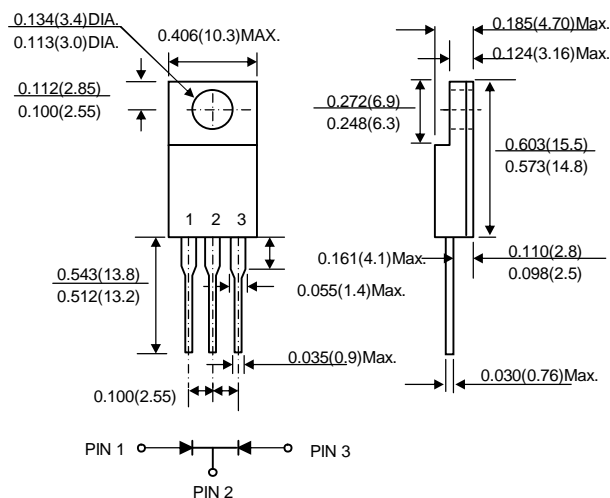
- * High current capability
- * High surge current capability
- * Low leakage, high voltage
- * Glass passivated chip junction
- * **Pb / RoHS Free**

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

ITO-220AB



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

RATING	SYMBOL	BYQ28EF-100	BYQ28EF-150	BYQ28EF-200	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	150	200	V
Maximum Working Peak Reverse Voltage	V _{RWM}	100	150	200	V
Maximum DC Blocking Voltage	V _{DC}	100	150	200	V
Maximum Average Forward Current, T _c = 100°C	I _{F(AV)}	10 (Total Device)			A
		5 (Total Device)			
Maximum Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at T _c = 100°C	I _{FSM}	55			A
Maximum Non-repetitive Peak Reverse Current per Leg	I _{RSM}	0.2 (t _p = 100µs)			A
Maximum Instantaneous Forward Voltage per Leg at I _F = 10A, T _j = 25°C I _F = 5.0A, T _j = 25°C	V _F	1.25			V
		1.1			
Maximum Reverse Current per Leg at Working Peak Reverse Voltage	I _R	10 (T _j = 25°C)			µA
	I _{R(H)}	200 (T _j = 100°C)			µA
Maximum Reverse Recovery Time per Leg (I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A)	T _{rr}	20			ns
Typical junction capacitance at 4V, 1MHz	C _j	85			pF
Maximum Thermal Resistance, Junction to Case	R _{θJC}	6.7			°C/W
Operating storage and temperature range	T _J , T _{STG}	- 55 to + 150			°C

RATING AND CHARACTERISTIC CURVES (BYQ28EF Series)

FIG.1 - FORWARD CURRENT DERATING CURRENT

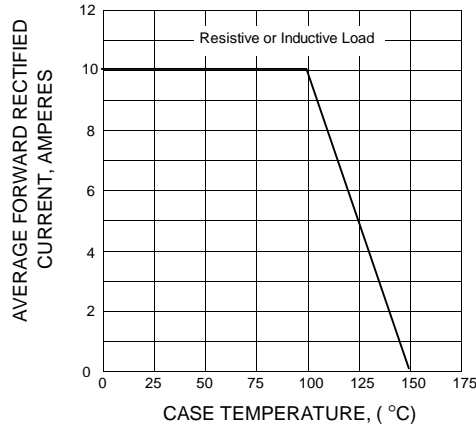


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

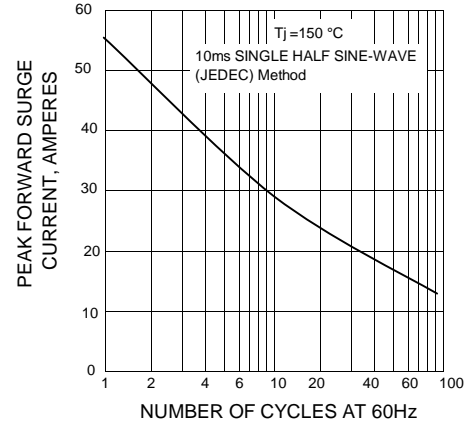


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

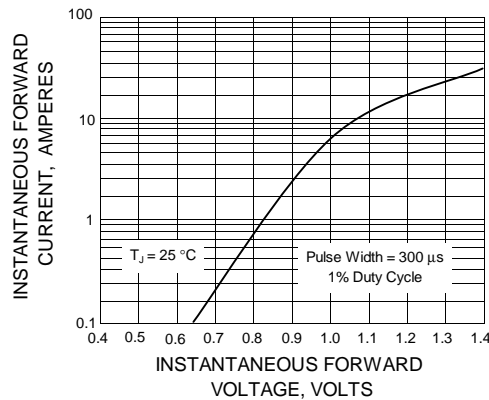


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

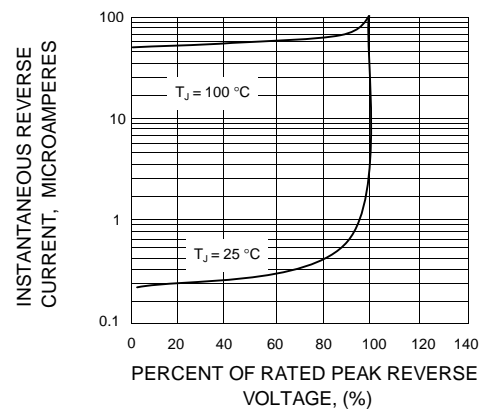


FIG. 5 – TYPICAL JUNCTION CAPACITANCE PER LEG

