

BYQ28EF Series

PRV : 100 - 200 Volts

Io : 10 Ampere

FEATURES :

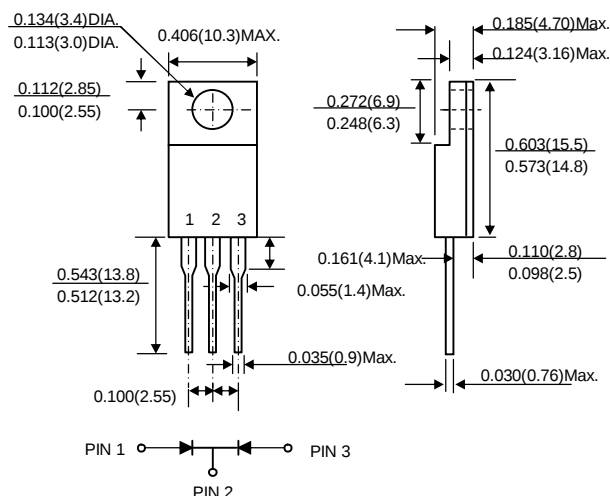
- * High current capability
- * High surge current capability
- * Low leakage, high voltage
- * Glass passivated chip junction
- * **Pb / RoHS Free**

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 (Tc = 25°C unless otherwise specified.)

RATING	SYMBOL	BYQ28EF-100	BYQ28EF-150	BYQ28EF-200	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	100	150	200	V
Maximum Working Peak Reverse Voltage	VRWM	100	150	200	V
Maximum DC Blocking Voltage	VDC	100	150	200	V
Maximum Average Forward Current, Tc = 100°C	IF(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 Tc = 100°C	IFSM	55			A
Maximum Non-repitve Peak Reverse Current per Leg	IRSM	0.2 (tp = 100μs)			A
Maximum Instantaneous Forward Voltage per Leg at IF = 10A, Tj = 25°C IF = 5.0A, Tj = 25°C	VF	1.25			V
		1.1			
Maximum Reverse Current per Leg at Working Peak Reverse Voltage	IR	10 (Tj = 25°C)			μA
	IR(H)	200 (Tj = 100°C)			μA
Maximum Reverse Recovery Time per Leg (IF = 0.5A, IR = 1.0A, Irr = 0.25A)	Trr	20			ns
Typical junction capacitance at 4V, 1MHz	Cj	85			pF
Maximum Thermal Resistance, Junction to Case	RθJC	6.7			°C/W
Operating storage and temperature range	TJ, TSTG	- 55 to + 150			°C

RATING AND CHARACTERISTIC CURVES (BYQ28EF Series)

FIG.1 - FORWARD CURRENT DERATING CURRENT

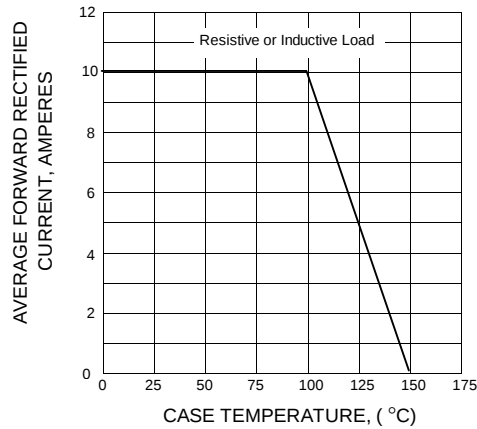


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

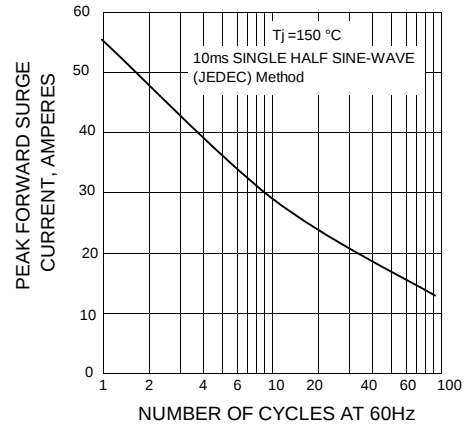


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

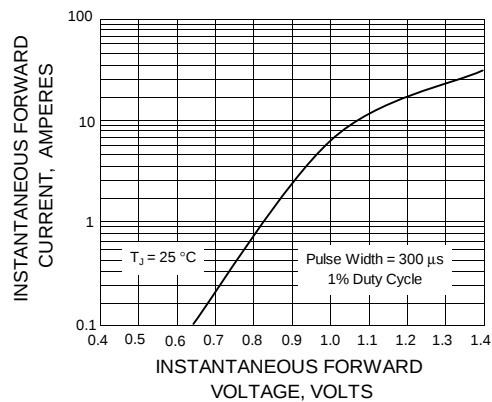


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

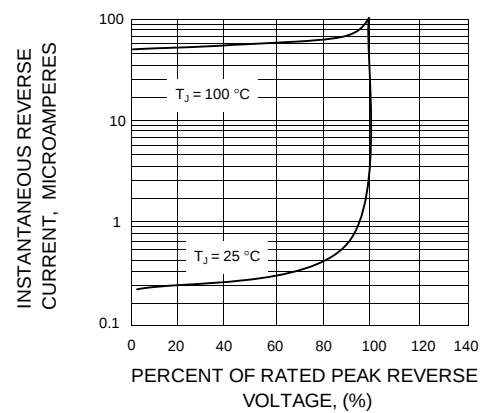


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

