BIG SOZA CELL

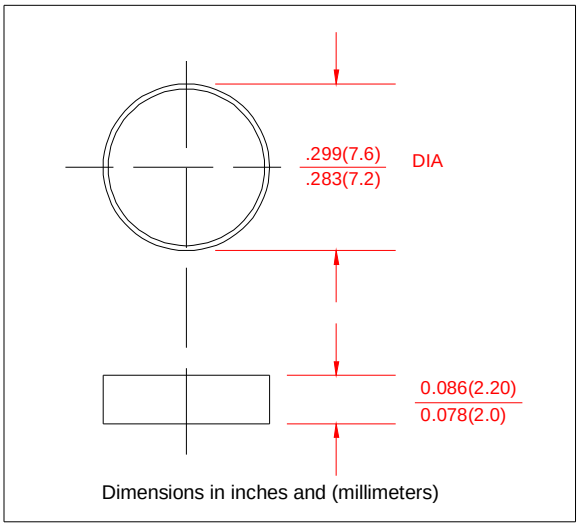
BSOZA401 THRU BSOZA406

VOLTAGE RANGE **100 to 600 Volts**
CURRENT **40.0 Amperes**

TECHNICAL SPECIFICATION:

FEATURES

- Low Leakage
- Low forward voltage drop
- High current capability
- High forward surge current capacity



MECHANICAL DATA

- Copper slug
- Technology: cell with vacuum soldered
- Polarity: blue dots denotes cathode end
- Mounting Position: Any
- Weight: 0.0219 ounces, 0.62 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ ambient temperature unless otherwise specified
- Single Phase, half wave, 60HZ, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	BSOZA401	BSOZA402	BSOZA403	BSOZA404	BSOZA406	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	300	400	600	Volts
Maximum RMS Voltage	V_{RMS}	70	140	210	280	420	Volts
Maximum DC Blocking Voltage	V_{DC}	100	200	300	400	600	Volts
Maximum Average Forward Rectified Current, At Tc=110℃	I_O	40.0					Amps
Peak Forward Surge Current 3.3mS single half sine wave superimposed on Rated load (JEDEC method)	I_{FSM}	500					Amps
Maximum instantaneous Forward Voltage at 100A	V_F	1.08					Volts
Maximum DC Reverse Current at Rated TA=25℃	I_R	5.0					UA
DC Blocking Voltage per element TA=100℃		250					
Typical Thermal Resistance	$R_{\theta JC}$	1.0					℃/W
Operating and Storage Temperature Range	T_J,T_{STG}	(-65 to +175)					℃

Notes:

1. Enough heatsink must be considered in application.

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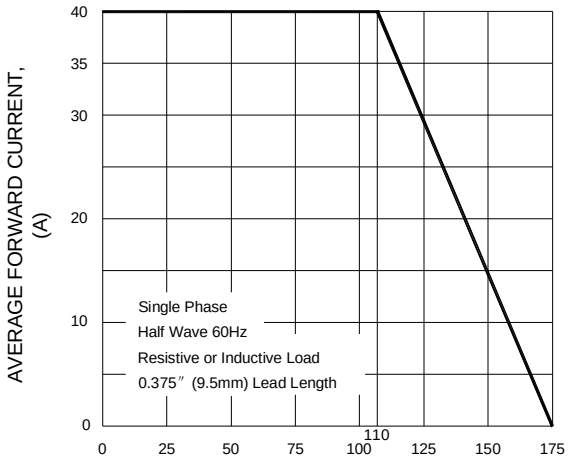
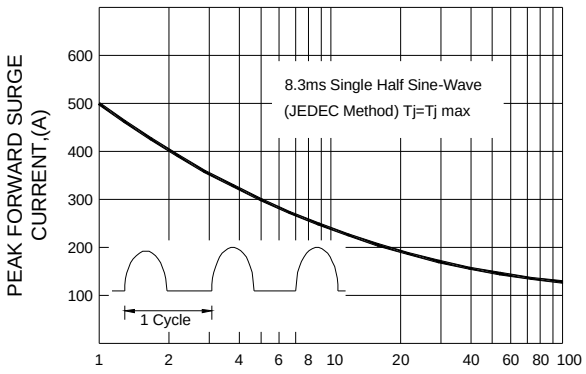
RATINGS AND CHARACTERISTIC CURVES BSOZA401 THRU BSOZA406

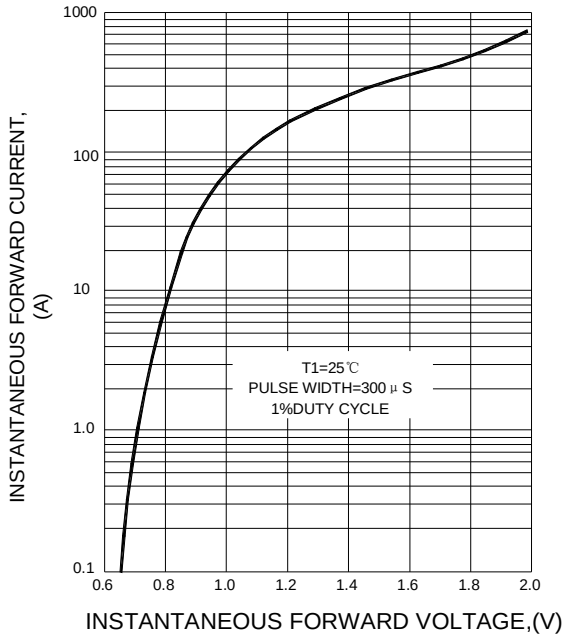
F1G.1 TYPICAL FORWARD CURRENT DERATING GURVE



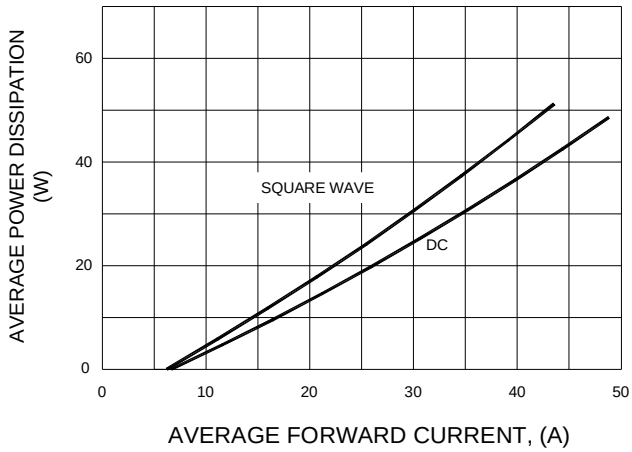
F1G.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



F1G.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4 FORWARD ROWER DISSIPATION



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