



**Shanghai Lunsure Electronic
Technology Co.,LTD**
Tel:0086-21-37185008
Fax:0086-21-57152769

Features

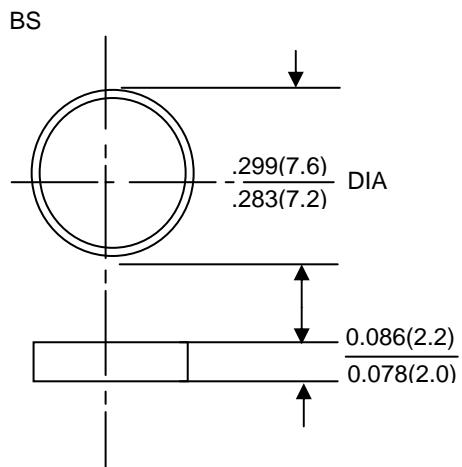
- Low leakage
- Low forward voltage drop
- High current capability
- High forward surge current capability

BSOZA301
THRU
BSOZA306

Mechanical Data

- Copper slug
- Technology: cell with vacuum soldered
- Polarity: blue dots denotes cathode end
- Mounting Position: Any
- Weight: 0.7 grams

BIG SOZA CELL
VOLTAGE RANGE
100 TO 600 VOLTS
CURRENT 30AMPS



Dimensions in inches and millimeters

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified
Single phase, half wave, 60Hz, resistive or inductive load
For capacitive load derate current by 20%

Parameters	Symbols	BSOZA301	BSOZA302	BSOZA303	BSOZA304	BSOZA306	Units
Maximum repetitive peak reverse voltage	V_{RRM}	100	200	300	400	600	Volts
Maximum RM S voltage	V_{RMS}	70	140	210	280	420	Volts
Maximum DC blocking voltage	V_{DC}	100	200	300	400	600	Volts
Maximum Average rectified forward current at $T_C=110^\circ C$	I_o			30			Amps
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (JE DEC Method)	I_{FSM}			400			Amps
Maximum instantaneous forward voltage drop at 100A	V_F			1.1			Volts
Maximum DC reverse current $T_A=25^\circ C$ at rated DC blocking voltage $T_A=150^\circ C$	I_R			5			uA
Typical thermal resistance	$R_{\theta JC}$			250			
Operating and storage temperature	T_J, T_{STG}			1.0			°C/W
				-65 to +175			°C

Notes: 1. Enough heatsink must be considered in application.

BSOZA301 THRU BSOZA306

Ratings and Characteristic Curves

FIG.1—TYPICAL FORWARD CURRENT DERATING CURVE

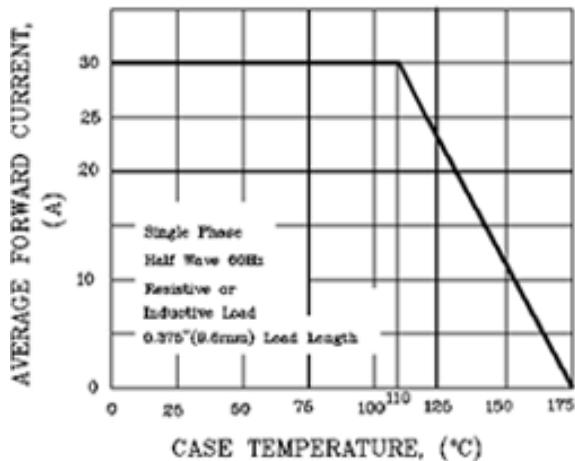


FIG.2—MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

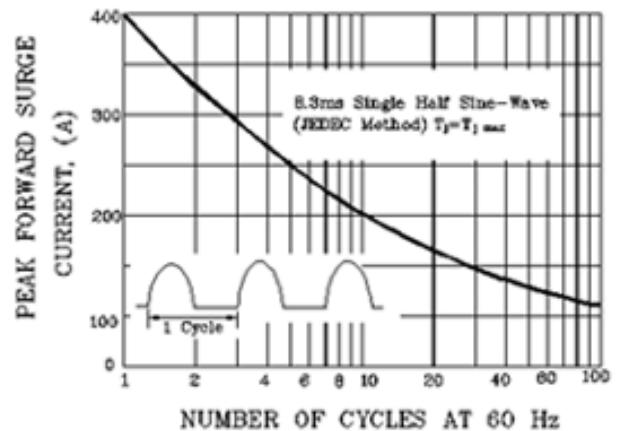


FIG.3—TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

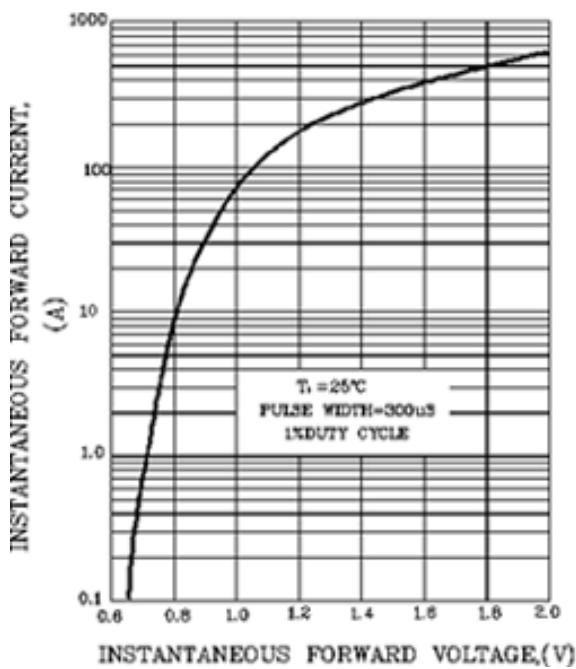


FIG.4. FORWARD POWER DISSIPATION

