



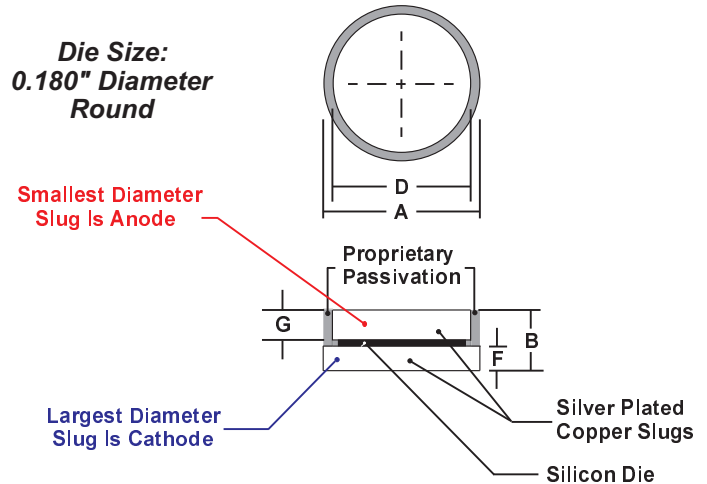
## 35 AMP SOZA DIODE CELLS

### FEATURES

- Void Free Vacuum Die Soldering For Maximum Mechanical Strength and Heat Dissipation (Solder Voids: Typical < 2%, Max. < 10% of Die Area)
- Biggest Effective Die Area for the 35 Amp Class of Soza Diode Cells
- High Temperature Solder (Solidus 287°C, Liquidus 296°C) to Allow Higher Operating And Assembly Temperatures
- Copper Headers Are Silver Plated For Easy Soldering And Superior Solder Joints
- Largest Diameter Header Is Cathode

**RoHS COMPLIANT**

### MECHANICAL SPECIFICATION



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	5.41	5.51	0.213	0.217
B	1.95	2.05	0.077	0.081
D	4.77	4.87	0.188	0.192
F	0.64	0.76	0.025	0.030
G	0.96	1.09	0.038	0.043

### MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

PARAMETER (TEST CONDITIONS)	SYMBOL	RATINGS								UNITS	
		BAR 3501D	BAR 3502D	BAR 3504D	BAR 3506D	BAR 3508D	BAR 3510D	BAR 3512D			
Series Number											
Maximum DC Blocking Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	1200		VOLTS	
Maximum RMS Voltage	V <sub>RMS</sub>	70	140	280	420	560	700	840			
Maximum Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	1200			
Average Rectified Forward Current (Single phase, Resistive load, 60Hz)	I <sub>o</sub>	35								AMPS	
Non-repetitive Peak Forward Surge Current (Half wave, Single phase, 60Hz sine applied to rated load)	I <sub>FSM</sub>	500									
Maximum Forward Voltage @ 35 Amp DC	V <sub>F</sub>	1.1 (1.05 Typical)					1.15			VOLTS	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.5 50									μA
Maximum Thermal Resistance, Junction to Lead (Note 1)	R <sub>θJC</sub>	0.9									°C/W
Operating & Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +175									°C

Notes: 1) Single Side Cooled