DIOTEC ELECTRONICS CORP.
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Gardena, CA 90248 U.S.A
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Data Sheet No. BUDI-2500D-1A

25 AMP SOZA DIODE CELLS

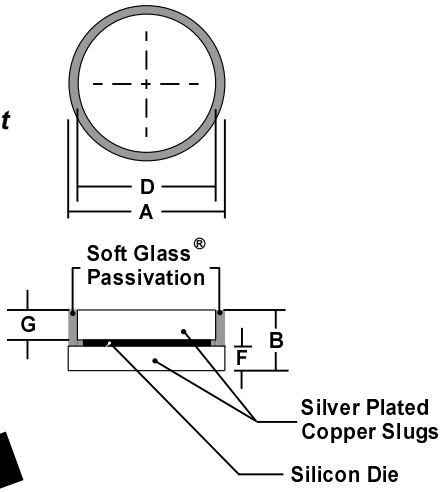
FEATURES

- PROPRIETARY *SOFT GLASS*® JUNCTION PASSIVATION FOR SUPERIOR RELIABILITY AND PERFORMANCE
- VOID FREE VACUUM DIE SOLDERING FOR MAXIMUM MECHANICAL STRENGTH AND HEAT DISSIPATION (Solder Voids: Typical < 2%, Max. < 10% of Die Area)
- Large die for high power capability
- Very low forward voltage drop
- Built-in stress relief mechanism for die protection
- Silver plated substrates for easy soldering or installation
- Soldering temperature: 250 °C maximum
- Protects expensive automotive electronics and mobile equipment

RoHS COMPLIANT

MECHANICAL SPECIFICATION

Die Size:
0.157 Flat to Flat
Hex



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	5.33	5.46	0.210	0.215
B	2.03	2.16	0.080	0.085
D	4.70	4.83	0.185	0.190
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
Series Number		BAR 2501D	BAR 2502D	BAR 2504D	BAR 2506D	BAR 2508D	BAR 2510D	BAR 2512D	
Maximum DC Blocking Voltage	V_{RRM}	100	200	400	600	800	1000	1200	VOLTS
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	840	
Maximum Peak Recurrent Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	1200	
Average Rectified Forward Current (Single phase, Resistive load, 60Hz)	I_o	25							AMPS
Non-repetitive Peak Forward Surge Current (Half wave, Single phase, 60Hz sine applied to rated load)	I_{FSM}	450							
Maximum Instantaneous Forward Voltage @ I_F = 6 Amps @ I_F = 25 Amps	V_F	0.85 1.05					0.90 1.10		VOLTS
Maximum DC Reverse Current At Rated DC Blocking Voltage @ Tc = 25 °C	I_R	0.5							µA
Operating & Storage Temperature Range	T_J, T_{STG}	-65 to +175							°C

BAR25d