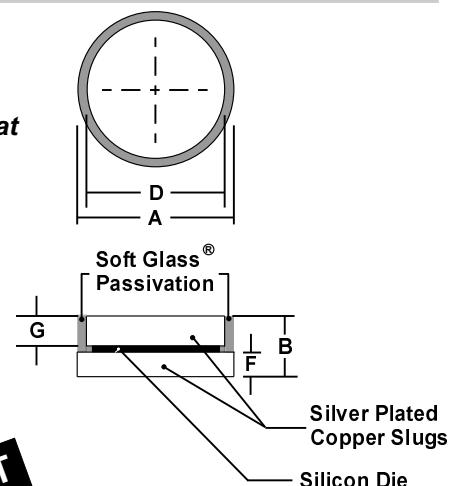


25 AMP SOZA DIODE CELLS

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

Die Size:
0.157 Flat to Flat
Hex



RoHS COMPLIANT

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 @ T _c = 25 °C	I _R	0.5								μA
Operating & Storage Temperature Range	T _J , T _{STG}	-65 to +175								°C

BAR 250