

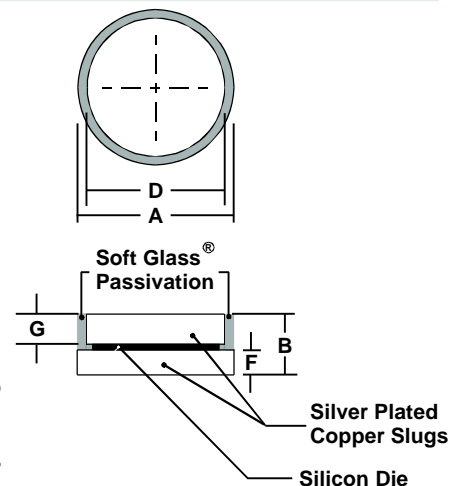
35 AMP JUMBO DIODE CELLS

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

SOFT GLASS[®] DIODE

Die Size:
0.165" x 0.165"
Square



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 3500D	BAR 3501D	BAR 3502D	BAR 3504D	BAR 3506D	BAR 3508D	BAR 3510D	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Working Peak Reverse Voltage	VRWM								
Maximum DC Blocking Voltage	VDC								
Non-repetitive Peak Reverse Voltage (Half wave, Single phase, 60Hz peak)	VRSM	60	120	240	480	720	960	1200	
Average Rectified Forward Current (Single phase, Resistive load, 60Hz)	Io	35							AMPS
Non-repetitive Peak Forward Surge Current (Half wave, Single phase, 60Hz sine applied to rated load)	IFSM	600							
Repetitive Peak Reverse Surge Current (Time constant = 10 mSec, Duty cycle ≤ 1.0%, Tc = 25 °C)	IRSM	110							
Maximum Instantaneous Forward Voltage (If = 80A @300 μSec pulse, Tc = 25°C)	VF	1.1 (1.05 Typical)					1.2		VOLTS
Maximum DC Reverse Current @ Tc = 25 °C At Rated DC Blocking Voltage @ Tc = 100 °C	IR	0.5 50							μA
Maximum Thermal Resistance, Junction to Lead (Note 1)	RθJC	0.9							°C/W
Operating & Storage Temperature Range	TJ,TSTG	-65 to +175							°C

Notes: 1) Single Side Cooled