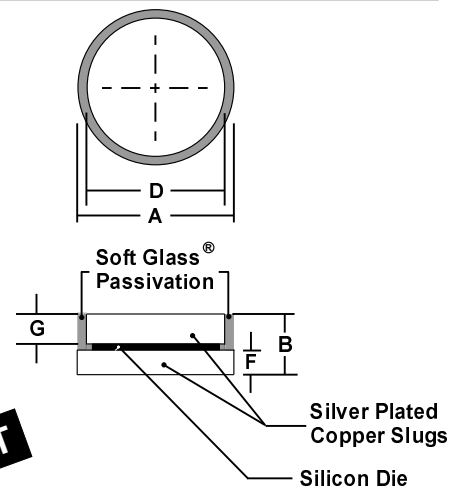


## 12 AMP PR4 DIODE CELLS

### FEATURES

- PROPRIETARY **SOFT GLASS<sup>®</sup>** 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:  
0.120"  
Round



**RoHS COMPLIANT**

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	3.86	4.06	0.152	0.160
B	1.98	2.18	0.078	0.086
D	3.07	3.28	0.121	0.129
F	0.76 Typ		0.030 Typ	
G	1.02 Typ		0.040 Typ	

### MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

PARAMETER (TEST CONDITIONS)	SYMBOL	RATINGS							UNITS
Series Number		BAR 1201D	BAR 1202D	BAR 1204D	BAR 1206D	BAR 1208D	BAR 1210D	BAR 1212D	
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 Recurrent 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>	12							AMPS
Non-repetitive Peak Forward Surge Current (Half wave, Single phase, 60Hz sine applied to rated load)	I <sub>FSM</sub>	250							
Maximum Instantaneous Forward Voltage @ I <sub>F</sub> = 3 Amps @ I <sub>F</sub> = 12 Amps	V <sub>F</sub>	0.90 1.05					0.95 1.10		VOLTS
Maximum DC Reverse Current At Rated DC Blocking Voltage @ T <sub>c</sub> = 25 °C	I <sub>R</sub>	0.5							μA
Operating & Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +175							°C

BAR122