DIOTEC ELECTRONICS CORP.
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Data Sheet No. BUDI-1200D-1A

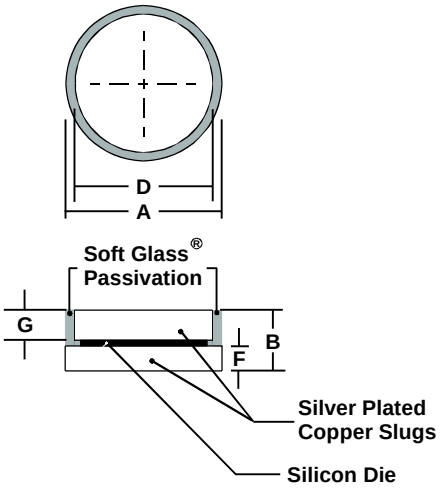
12 AMP PR4 DIODE CELLS

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

MECHANICAL SPECIFICATION

Die Size: 0.120" Round



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 1200D	BAR 1201D	BAR 1202D	BAR 1204D	BAR 1206D	BAR 1208D	BAR 1210D	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	VOLTS
Working Peak Reverse Voltage	V_{RWM}								
Maximum DC Blocking Voltage	V_{DC}								
Non-repetitive Peak Reverse Voltage (Half wave, Single phase, 60Hz peak)	V_{RSM}	60	120	240	480	720	960	1200	
Average Rectified Forward Current (Single phase, Resistive load, 60Hz)	I_O	12							AMPS
Non-repetitive Peak Forward Surge Current (Half wave, Single phase, 60Hz sine applied to rated load)	I_{FSM}	250							
Maximum Instantaneous Forward Voltage @ I_F = 3 Amps @ I_F = 12 Amps	V_F	0.90 1.05					0.95 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

BAR12d