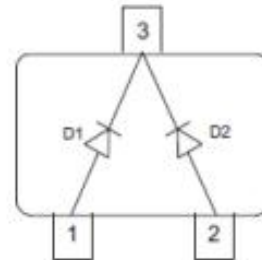


## GENERAL PURPOSE PIN DIODES

### ● FEATURES

- Low diode capacitance
- Low diode forward resistance
- High voltage,current controlled
- RF resistor for RF attenuators and switches
- Low diode forward resistance
- For applications up to 3 GHz

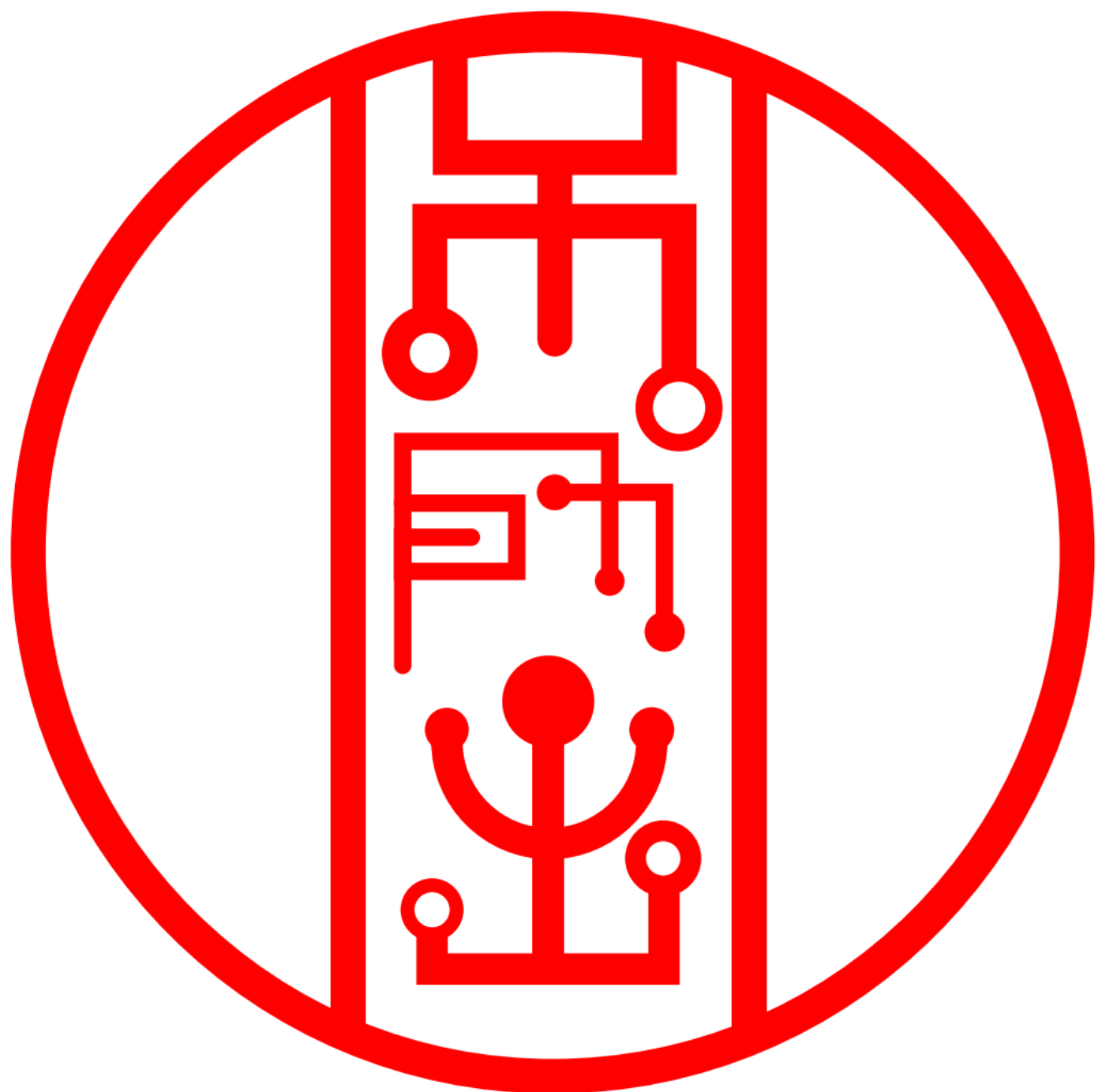


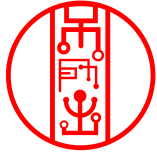
### ● MAXIMUM RATINGS @ $T_A = 25\text{ }^{\circ}\text{C}$

| Parameter                        | Symbol          | Limits             | Unit                 |
|----------------------------------|-----------------|--------------------|----------------------|
| Continuous Reverse Voltage       | $V_R$           | 150                | V                    |
| Forward Continuous Current       | $I_{FM}$        | 100                | mA                   |
| Power Dissipation                | $P_D$           | 150                | mW                   |
| Thermal Resistance               | $R_{\theta JA}$ | 85                 | $^{\circ}\text{C/W}$ |
| Junction and Storage Temperature | $T_J, T_{STG}$  | -55~150, -55 ~ 150 | $^{\circ}\text{C}$   |

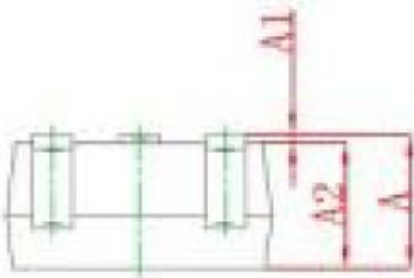
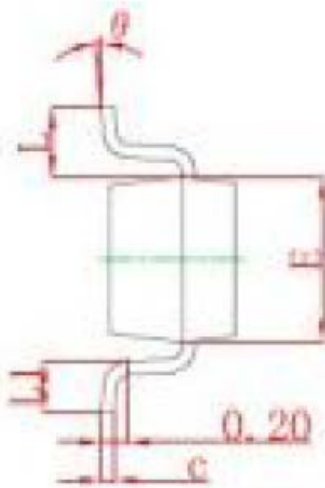
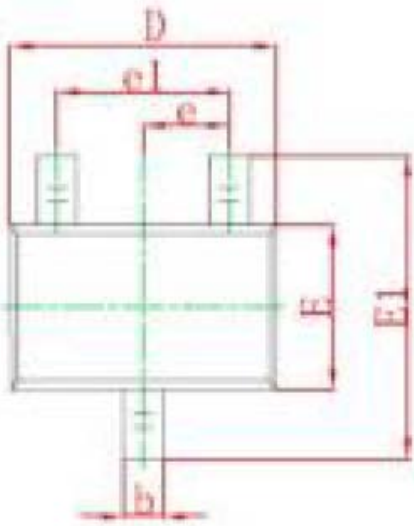
### ● ELECTRICAL CHARACTERISTICS ( $T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified)

| Parameter                       | Symbol     | Conditions                                              | Min | Max  | Unit          |
|---------------------------------|------------|---------------------------------------------------------|-----|------|---------------|
| Reverse Breakdown Voltage       | $V_{(BR)}$ | $I_R = 10\text{ }\mu\text{A}$                           | 150 |      | V             |
| Reverse Voltage Leakage Current | $I_R$      | $V_R = 150\text{ V}, T_A = 25\text{ }^{\circ}\text{C}$  |     | 50   | nA            |
|                                 |            | $V_R = 150\text{ V}, T_A = 100\text{ }^{\circ}\text{C}$ |     | 100  | $\mu\text{A}$ |
| Forward Voltage                 | $V_F$      | $I_F = 50\text{ mA}$                                    |     | 1.10 | V             |
| Diode Capacitance               | $C_{tot}$  | $V_R = 1\text{ V}, f = 1\text{ MHz}$                    |     | 0.50 | pF            |
| Diode forward resistance        | $r_D$      | $I_F = 1\text{ mA}, f = 100\text{ MHz}; \text{note1}$   |     | 20   | $\Omega$      |





# BAR64-05W



| Symbol   | Dimensions In Millimeters |       | Dimensions In Inches |       |
|----------|---------------------------|-------|----------------------|-------|
|          | MIN                       | MAX   | MIN                  | MAX   |
| A        | 0.900                     | 1.100 | 0.035                | 0.043 |
| A1       | 0.000                     | 0.100 | 0.000                | 0.004 |
| A2       | 0.900                     | 1.000 | 0.035                | 0.039 |
| b        | 0.200                     | 0.400 | 0.008                | 0.016 |
| c        | 0.080                     | 0.150 | 0.003                | 0.005 |
| D        | 2.000                     | 2.200 | 0.079                | 0.087 |
| E        | 1.150                     | 1.350 | 0.045                | 0.053 |
| E1       | 2.150                     | 2.450 | 0.085                | 0.095 |
| e        | 0.650 TYP                 |       | 0.026 TYP            |       |
| e1       | 1.200                     | 1.400 | 0.047                | 0.055 |
| L        | 0.525 REF                 |       | 0.021 REF            |       |
| L1       | 0.260                     | 0.460 | 0.010                | 0.018 |
| $\theta$ | 0°                        | 8°    | 0°                   | 8°    |