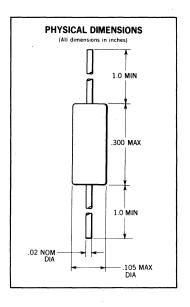
1N458

LOW LEAKAGE PLANAR* DIODE

| MAXIMUM RA | NTINGS (25°C) [Note 1] | |
|------------------------|-----------------------------------------------------|-----------------|
| WIV | Working Inverse Voltage | 125 V |
| I _o | Average rectified current | 55 mA |
| i _F | Forward current steady state d.c. | 115 mA |
| I _f | Recurrent peak forward current | 175 mA |
| i _f (surge) | Peak forward surge current pulse width of 1 second | 500 mA |
| i _f (surge) | Peak forward surge current pulse width of 1 μ s | 2 A |
| P | Power dissipation | 400 mW |
| T_A | Operating temperature | -65°C to +150°C |
| $T_{\rm stg}$ | Storage temperature, ambient | -65°C to +175°C |
| | | |



ELECTRICAL SPECIFICATIONS (25°C unless otherwise noted)

| SYMBOL | CHARACTERISTIC | MIN. | TYP. | MAX. | UNITS | TEST CONDITIONS |
|----------------|----------------------------------|------|------|------|---------|--------------------------|
| V _F | Forward Voltage | | | 1.0 | Volts | $I_{\rm F}=7.0~{\rm mA}$ |
| I _R | Reverse Current | | | 25 | . nA | $V_R = -125 V$ |
| I _R | Reverse Current (150°C) | | | 5.0 | μ A | $V_R = -125 V$ |
| BV | Breakdown Voltage | 150 | | | Volts | $I_{R}=100~\muA$ |
| C _o | Capacitance (f = 1 MHz) [Note 2] | | | 6.0 | pF | $V_R = 0 V$ |

^{*} Planar is a patented Fairchild process.

NOTES:

- (1) The maximum ratings are limiting values above which life or satisfactory performance may be impaired.
 (2) Capacitance as measured on Boonton Electronic Corporation Model No. 75A-S8 Capacitance Bridge or equivalent.

