

# SILICON HYPERABRUPT VARACTOR DIODE

## DESCRIPTION:

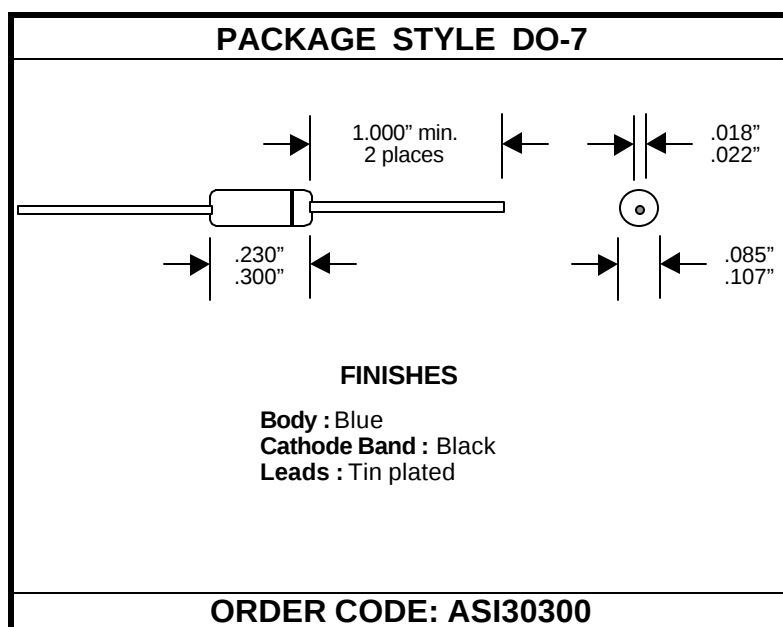
The **DKV6534B** is designed for UHF Filter and Oscillator Applications that Require Octave tuning.

## FEATURES:

- $T_R = 5.8$  Typical at  $V_R = 3 / 20$  V
- $Q = 300$  Typical at 3 V /50 MHz
- Hermetic **DO-7** Package

## MAXIMUM RATINGS

|            |                        |
|------------|------------------------|
| $I_F$      | 50 mA                  |
| $V_R$      | 22 V                   |
| $P_{DISS}$ | 250 mW @ $T_C = 25$ °C |
| $T_J$      | -55 °C to + 125 °C     |
| $T_{STG}$  | -55 °C to +175 °C      |



## CHARACTERISTICS $T_C = 25$ °C

| SYMBOL   | TEST CONDITIONS                                      | MINIMUM           | TYPICAL | MAXIMUM           | UNITS |
|----------|------------------------------------------------------|-------------------|---------|-------------------|-------|
| $V_{BR}$ | $I_R = 10$ $\mu$ A                                   | 22                |         |                   | V     |
| $I_R$    | $V_R = 20$ V                                         |                   |         | 100               | nA    |
| $C_T$    | $V_R = 2.0$ V<br>MHz<br>$V_R = 10$ V<br>$V_R = 20$ V | 25<br>10.0<br>4.5 |         | 31<br>13.5<br>5.3 | pF    |
| $T_R$    | $V_R = 3$ & 20 V<br>MHz                              | 4.7               |         | 6.9               | ---   |
| $Q$      | $V_R = 3.0$ V<br>MHz                                 | 200               | 300     |                   |       |



*ADVANCED SEMICONDUCTOR, INC.*

7525 ETHEL AVENUE • NORTH HOLLYWOOD, CA 91605 • (818) 982-1202 • TELEX: 18-2651 • FAX (818) 765-3004