

SILICON HYPERABRUPT VARACTOR DIODE

DESCRIPTION:

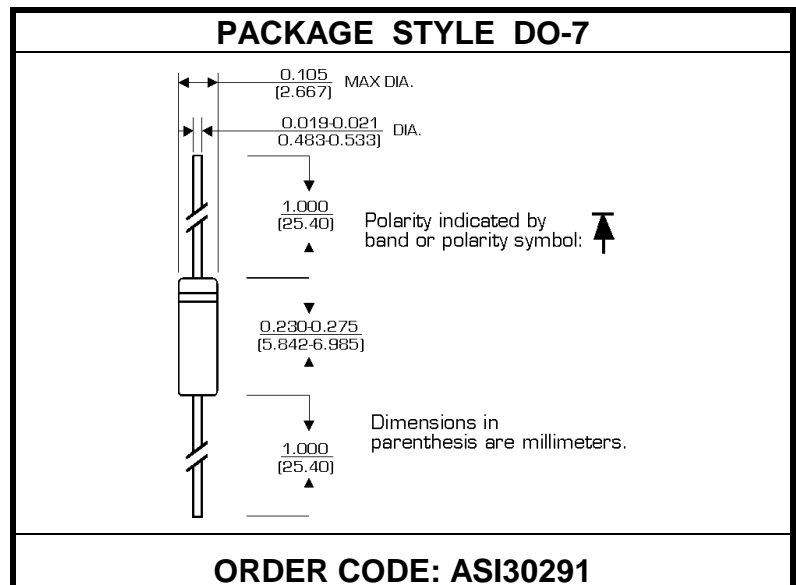
The **ASI DKV6520-12** is an Silicon Hyperabrupt Varactor Diode Designed for VHF/UHF Filters and Oscillators Requiring Octave Tuning.

FEATURES INCLUDE:

- $C_{T4} = 18$ pF Min.
- $C_{T4}/C_{T20} = 5.8$ Typical
- Hermetic Glass Package

MAXIMUM RATINGS

| | |
|------------|------------------------|
| I_F | 100 mA |
| V_R | 22 V |
| P_{DISS} | 250 mW @ $T_C = 25$ °C |
| T_J | -55 °C to +150 °C |
| T_{STG} | -65 °C to +200 °C |
| T_{SOLD} | +230 °C for 5 seconds |



CHARACTERISTICS $T_C = 25$ °C

| SYMBOL | TEST CONDITIONS | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|------------------|--------------------|---------|---------|---------|-------|
| V_{BR} | $I_R = 10$ μ A | 22 | | | V |
| I_R | $V_R = 20$ V | | | 100 | nA |
| C_T | $V_R = 4.0$ V | 18.0 | | 22.0 | pF |
| | $V_R = 8.0$ V | 7.5 | | 10.5 | |
| | $V_R = 20$ V | 3.1 | | 3.9 | |
| C_{T4}/C_{T8} | $V_R = 4$ & 8 V | 1.8 | | 2.7 | --- |
| C_{T4}/C_{T20} | $V_R = 4$ & 20 V | 5.4 | | 6.6 | --- |
| Q | $V_R = 4.5$ V | 150 | | | --- |