

SILICON HYPERABRUPT VARACTOR DIODE

DESCRIPTION:

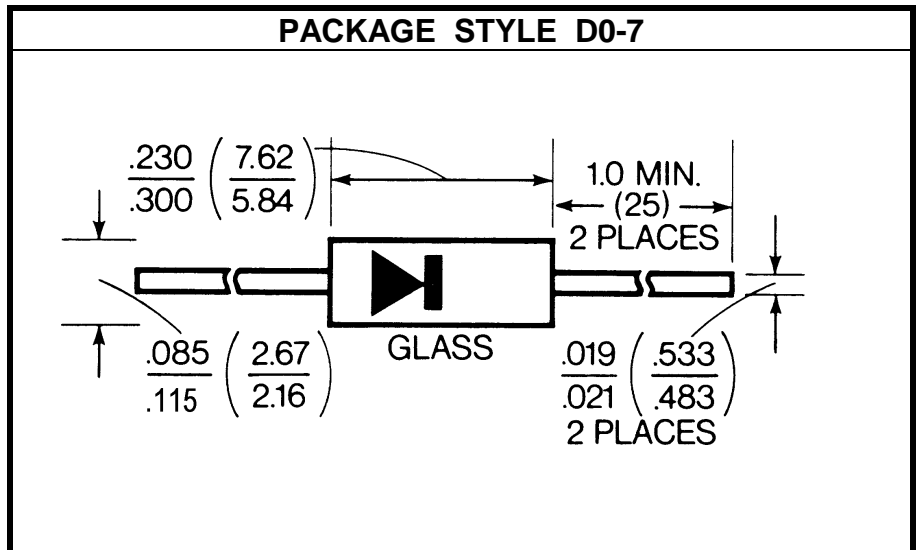
The **ASI MV1401** is a Silicon Hyper-Abrupt Tuning Varactor Diode.

FEATURES INCLUDE:

- **14:1** Minimum Tuning Range
- High **Q** - **400** Typical
- Economical **DO-7** Package

MAXIMUM RATINGS

| | |
|------------|---|
| I_F | 250 mA |
| V_R | 12 V |
| P_{DISS} | 400 mW @ $T_C = 25^\circ\text{C}$ |
| T_J | -65°C to $+200^\circ\text{C}$ |
| T_{STG} | -65°C to $+200^\circ\text{C}$ |


CHARACTERISTICS $T_A = 25^\circ\text{C}$

| SYMBOL | TEST CONDITIONS | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|------------------|------------------------|---------|-----------------------|---------|---------------|
| V_{BR} | $I_R = 10 \mu\text{A}$ | 12 | | | V |
| I_R | $V_R = 10 \text{ V}$ | | | 0.10 | μA |
| C_t | $V_R = 1.0 \text{ V}$ | | $f = 1.0 \text{ MHz}$ | 633 | pF |
| C_{T1}/C_{T10} | | | $f = 1.0 \text{ MHz}$ | 14 | --- |
| Q | $V_R = 2.0 \text{ V}$ | | $f = 1.0 \text{ MHz}$ | 200 | --- |