

# FV1043PF

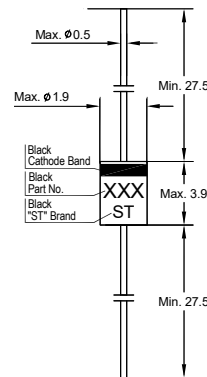
## Tuner AFC diode

The FV1043PF is a variable capacitor diode intended for AFC applications, VHF TV applications, FM Receivers. Air craft communications gear, and other receivers in the 1 MHz to 500 MHz.

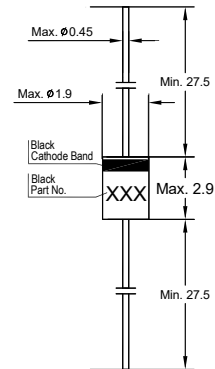
Standard package is DO-35 case, DO-34 case is available upon request.

### Features

- Lead Free



Glass Case DO-35  
Dimensions in mm



Glass Case DO-34  
Dimensions in mm

### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

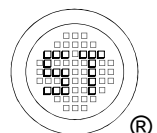
| Parameter                   | Symbol      | Value         | Unit             |
|-----------------------------|-------------|---------------|------------------|
| Breakdown Voltage           | $V_{BR}$    | 5             | V                |
| Average Forward Current     | $I_{F(AV)}$ | 250           | mA               |
| Power Dissipation           | $P_{tot}$   | 350           | mW               |
| Operating Temperature Range | $T_{opr}$   | - 65 to + 175 | $^\circ\text{C}$ |
| Storage Temperature Range   | $T_{stg}$   | - 65 to + 200 | $^\circ\text{C}$ |

### Thermal Characteristics

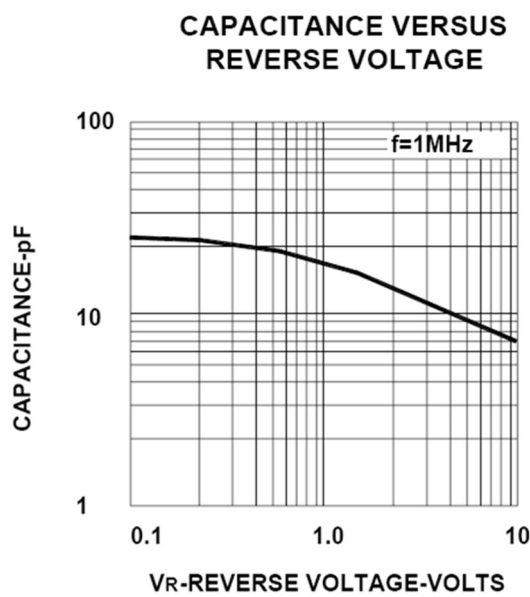
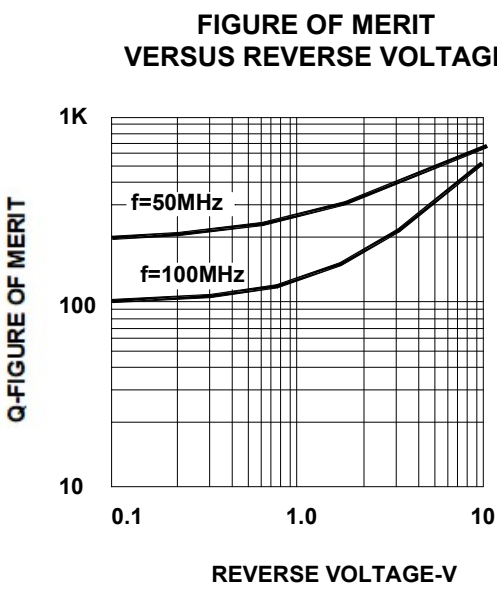
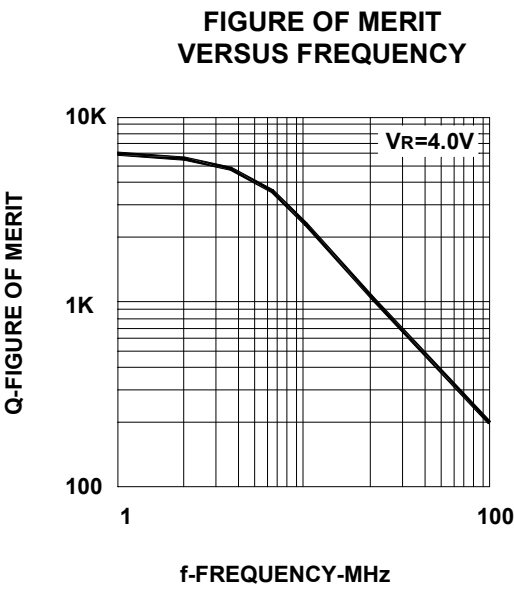
| Parameter                                   | Symbol          | Max. | Unit               |
|---------------------------------------------|-----------------|------|--------------------|
| Thermal Resistance from Junction to Ambient | $R_{\theta JA}$ | 429  | $^\circ\text{C/W}$ |

### Characteristics at $T_a = 25^\circ\text{C}$ unless otherwise noted

| Parameter                                                                                                                       | Symbol                | Min. | Typ. | Max. | Unit |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|------|------|------|------|
| Breakdown Voltage<br>at $I_R = 1 \mu\text{A}$                                                                                   | $V_{BR}$              | 5    | -    | -    | V    |
| Nominal Capacitance<br>at $V_R = 4 \text{ V}$ , $f = 1 \text{ MHz}$                                                             | C                     | 5    | -    | 20   | pF   |
| Capacitance Ratio<br>at $V_R = 0.1 \text{ V}$ , $f = 1 \text{ MHz}$ (C0.1)<br>at $V_R = 4 \text{ V}$ , $f = 1 \text{ MHz}$ (C4) | $\frac{C_{0.1}}{C_4}$ | -    | 1.8  | -    | -    |
| Figure Of Merit<br>at $f = 100 \text{ MHz}$                                                                                     | Q                     | 100  | -    | -    | -    |



Electrical Characteristics Curves



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