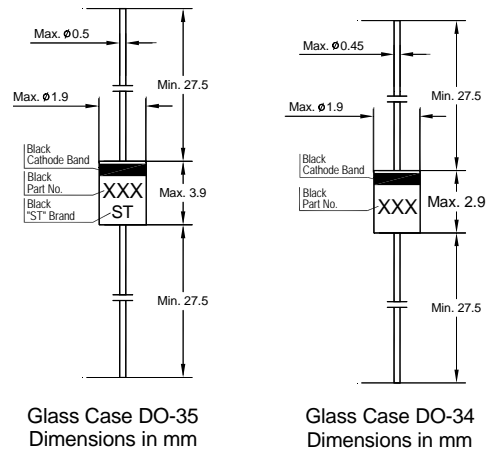


FV1043

Tuner AFC diode

The FV1043 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.

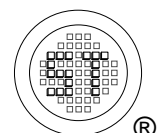


Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

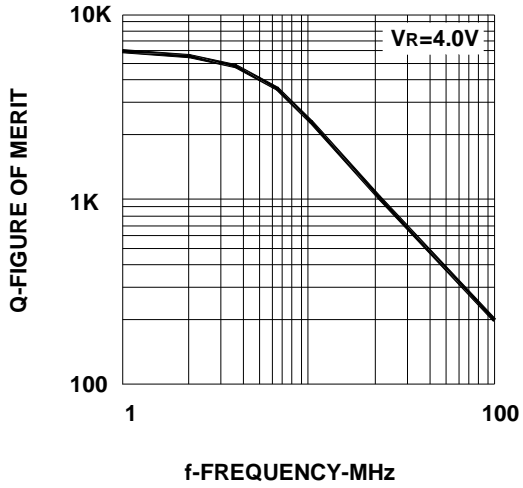
Parameter	Symbol	Value	Unit
Breakdown Voltage	V_{BR}	5	V
Average Forward Current	$I_{F(AV)}$	250	mA
Power Dissipation	P_{tot}	350	mW
Operating Temperature Range	T_{opr}	- 65 to + 175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 200	$^\circ\text{C}$

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

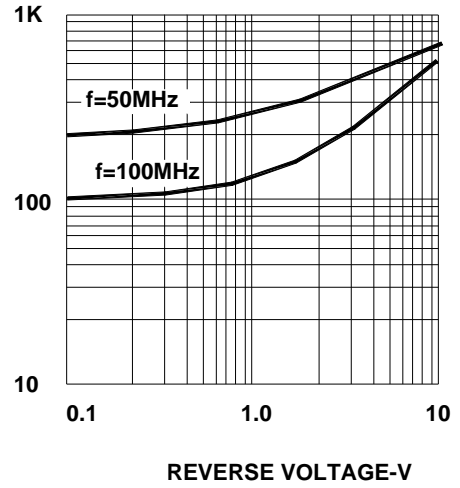
Parameter	Symbol	Min.	Typ.	Max.	Unit
Breakdown Voltage at $I_R = 1\text{ }\mu\text{A}$	V_{BR}	5	-	-	V
Nominal Capacitance at $V_R = 4\text{ V}$, $f = 1\text{ MHz}$	C	5	-	20	pF
Capacitance Ratio at $V_R = 0.1\text{ V}$, $f = 1\text{ MHz}$ (C0.1) at $V_R = 4\text{ V}$, $f = 1\text{ MHz}$ (C4)	$\frac{C_{0.1}}{C_4}$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



**FIGURE OF MERIT
VERSUS FREQUENCY**



**FIGURE OF MERIT
VERSUS REVERSE VOLTAGE**



**CAPACITANCE VERSUS
REVERSE VOLTAGE**

