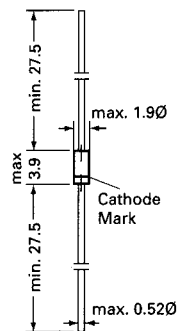


# FV 1043 TUNER AFC DIODE

## AFC Diode

The FV 1043 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.



Glass case JEDEC DO-35

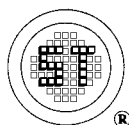
Dimensions in mm

## Absolute Maximum Ratings

	Symbol	Value	Unit
Breakdown Voltage	BV	5	Volts
Forward Current	$I_F$	250	mA
Power Dissipation	$P_D$	350	mW
Operating Temperature Range	$T_A$	-65 to + 175	°C
Storage Temperature Range	$T_S$	-65 to + 200	°C

## ELECTRICAL SPECIFICATIONS ( $T_A = 25^\circ\text{C}$ unless otherwise noted.)

PARAMETER	MIN.	TYP.	MX.	UNITS	TEST CONDITIONS
BV	5			Volts	$I_R = 1 \mu\text{A}$
Nominal Capacitance	5		20	PF	$V_R + 4.0\text{V}$ , $f = 1.0 \text{ MHz}$
$\frac{C_{0.1}}{C_4}$		1.8			$V_R = 0.1\text{V}$ , $f = 1.0\text{MHz}$ (C0.1) $V_R = 4.0\text{V}$ , $f = 1.0\text{MHz}$ (C4)
Q	100				$f = 100\text{MHz}$

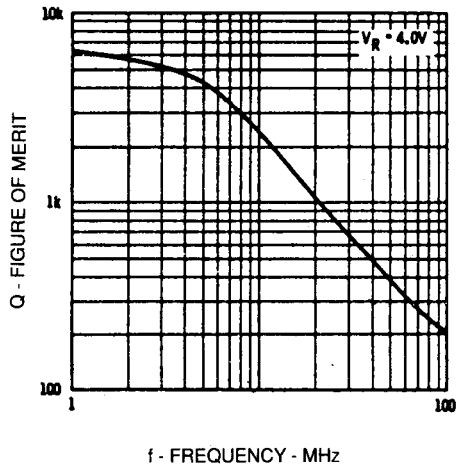


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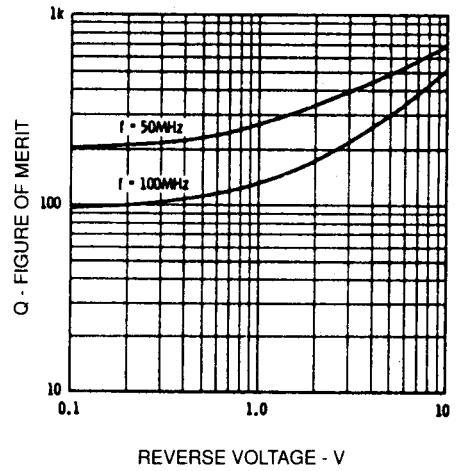


# FV 1043 TUNER AFC DIODE

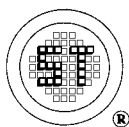
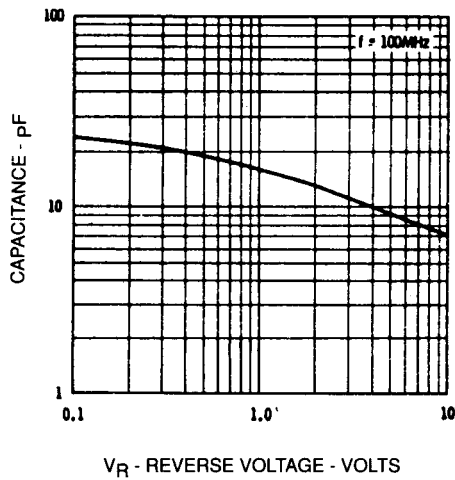
**FIGURE OF MERIT  
VERSUS FREQUENCY**



**FIGURE OF MERIT  
VERSUS REVERSE VOLTAGE**



**CAPACITANCE VERSUS  
REVERSE VOLTAGE**



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