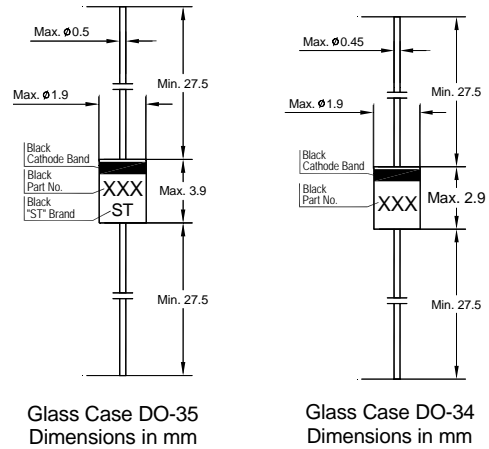


FV1043

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.

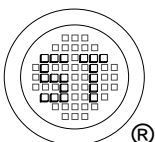


Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Breakdown Voltage	BV	5	V
Forward Current	I_F	250	mA
Power Dissipation	P_D	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 $I_R = 1\text{ }\mu\text{A}$	BV	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	-	-	-

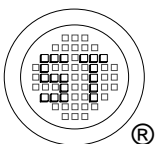
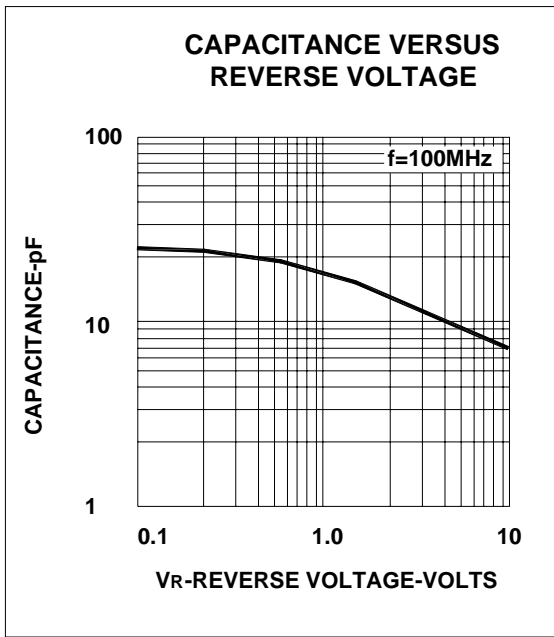
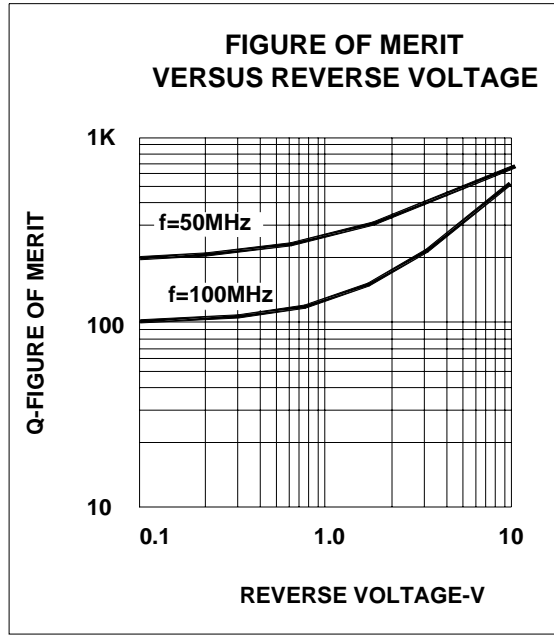
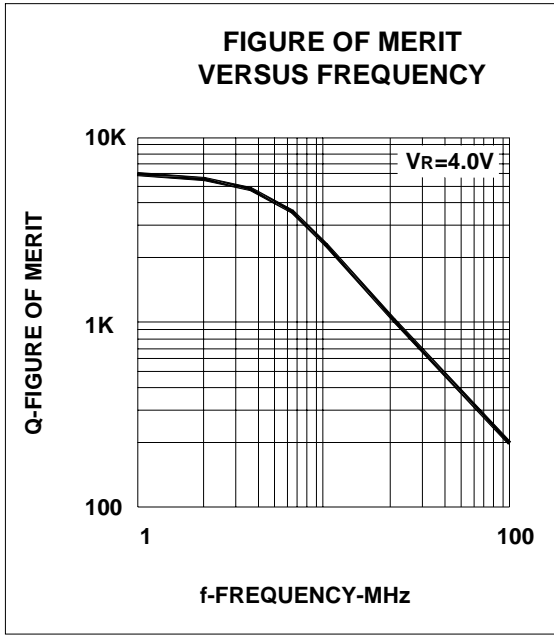


SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 22/06/2007



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098