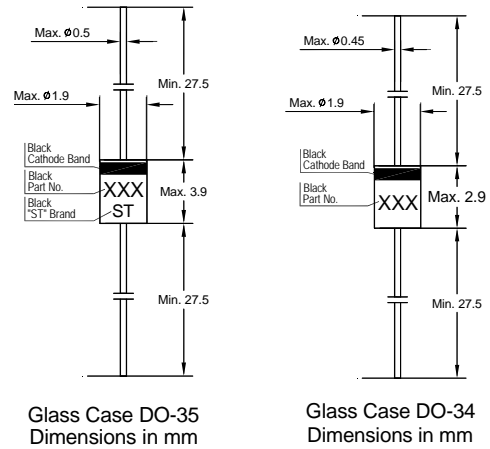


# 1S2638

## TUNER AFC DIODE

The 1S2638 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.

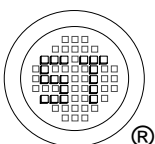


### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Breakdown Voltage	BV	10	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 $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Current at $V_R = 10\text{ V}$	$I_R$	-	5	$\mu\text{A}$
Nominal Capacitance at $V_R = 4\text{ V}$ , $f = 1\text{ MHz}$	C	5	20	pF
at $V_R = 4\text{ V}$ , $f = 100\text{ MHz}$	Q	50	-	-



**SEMTECH ELECTRONICS LTD.**

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ISO/TS 16949 : 2002  
Certificate No. 05103

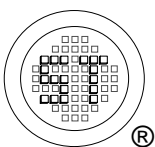
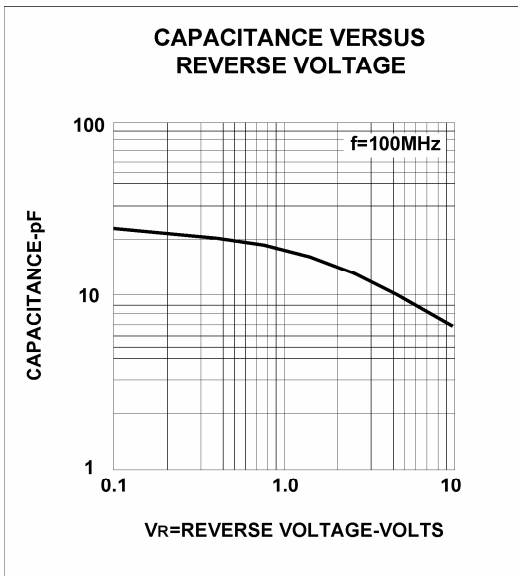
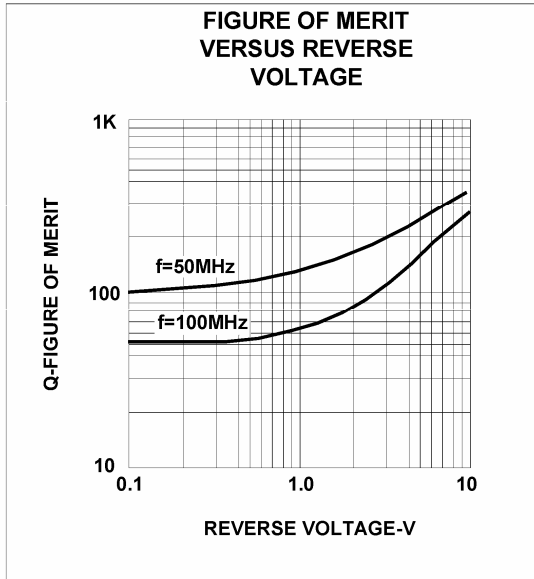
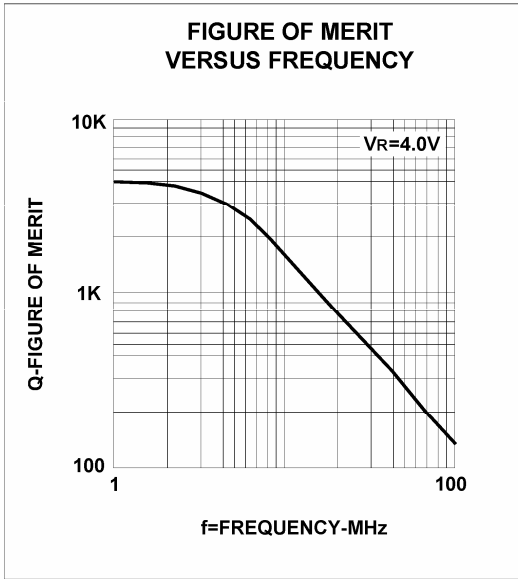


ISO 14001:2004  
Certificate No. 7116



ISO 9001:2000  
Certificate No. 0506098

Dated : 20/06/2007



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