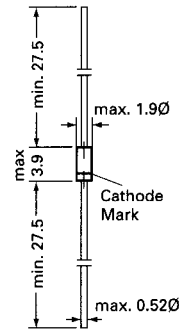


1S2638 TUNER AFC DIODE

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.



Glass case JEDEC DO-35

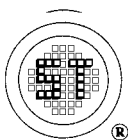
Dimensions in mm

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

	Symbol	Value	Unit
Breakdown Voltage	BV	10	Volts
Forward Current	I_F	250	mA
Power Dissipation	P_D	350	mW
Operating Temperature	T_A	-65 to + 175	$^\circ\text{C}$
Storage Temperature	T_S	-65 to + 200	$^\circ\text{C}$

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

PARAMETER	MIN.	TYP.	MX.	UNITS	TEST CONDITIONS
I_R			5	μA	$V_R = 10\text{V}$
Nominal Capacitance	5	10	20	PF	$V_R + 4.0\text{V}$, $f = 1.0\text{ MHz}$
Q	50				$V_R = 4\text{V}$, $f = 100\text{MHz}$

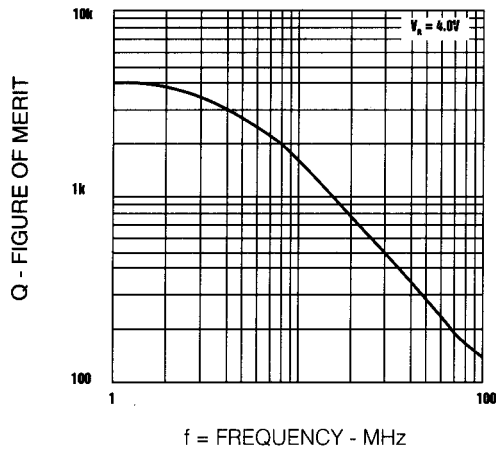


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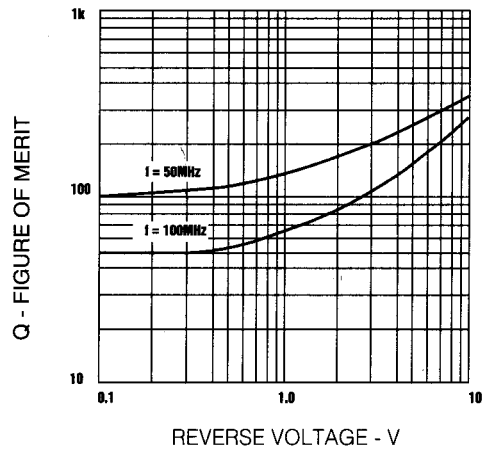


1S2638 TUNER AFC DIODE

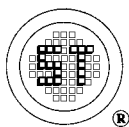
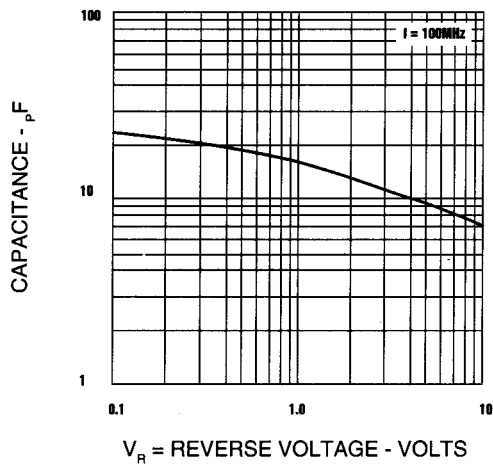
**FIGURE OF MERIT
VERSUS FREQUENCY**



**FIGURE OF MERIT
VERSUS REVERSE VOLTAGE**



**CAPACITANCE VERSUS
REVERSE VOLTAGE**



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