

Descriptions

- AFC application for FM receiver

Features

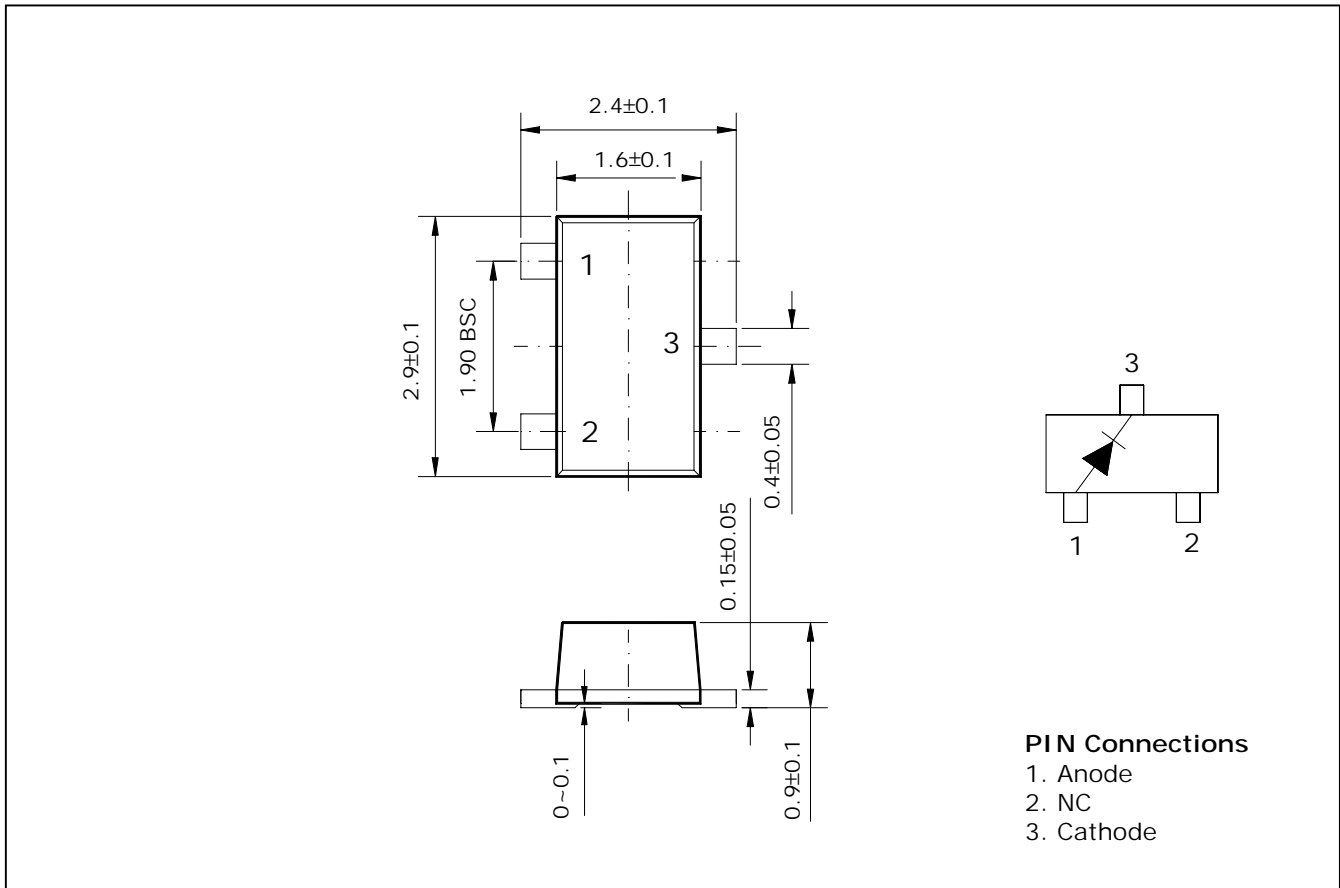
- High Q : $Q=70(\text{Min.})$ ($f=50\text{MHz}$)
- Low reverse current
: $I_R=100\text{nA}(\text{Max.})$ ($V_R=4\text{V}$)

Ordering Information

Type No.	Marking	Package Code
SDV702F	DV2	SOT-23F

Outline Dimensions

unit : mm



Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Reverse voltage	V_R	15	V
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ 150	°C

Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse current	I_R	$V_R=4V$	-	-	100	nA
Total capacitance	C_T	$V_R=8V, f=1MHz$	7.0	-	14.0	pF
Capacitance ratio	K^*	-	0.21	-	0.5	-
Figure of merit	Q	$V_R=4V, f=50MHz$	70	120	-	-

$$* : K = \frac{C_T(@V_R=2V) - C_T(@V_R=4V)}{C_T(@V_R=4V)} (f=1MHz)$$

Electrical Characteristic Curves**Fig. 1 C_T - V_R** 