

**Descriptions**

- AFC application for FM receiver

**Features**

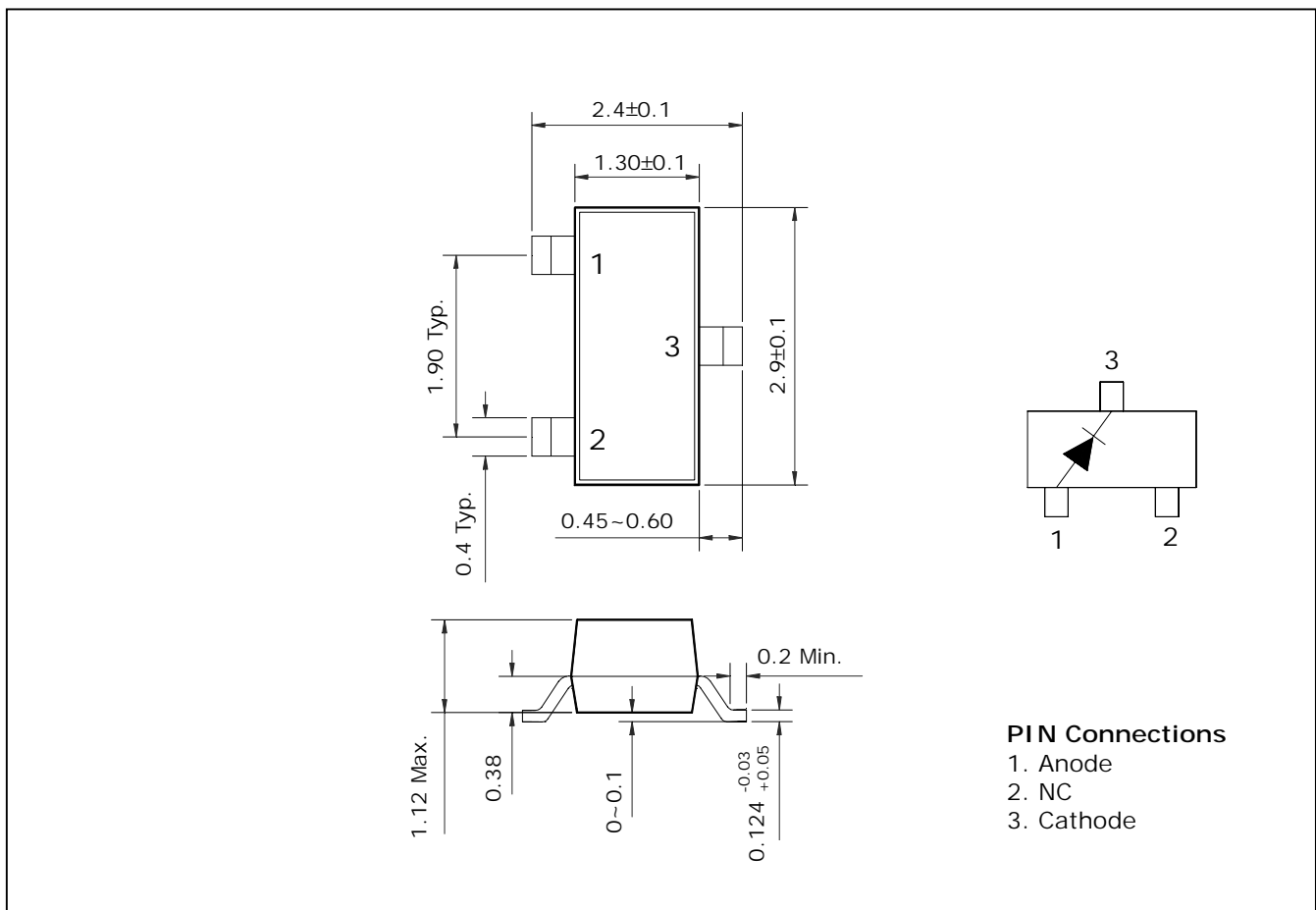
- High Q :  $Q=70(\text{Min.})$  ( $f=50\text{MHz}$ )
- Low reverse current  
:  $I_R=100\text{nA}(\text{Max.})$  ( $V_R=4\text{V}$ )

**Ordering Information**

Type No.	Marking	Package Code
SDV702	DV2	SOT-23

**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	$C_T$	$V_R=4V, f=1MHz$	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  $C_T$ - $V_R$** 