

**Features**

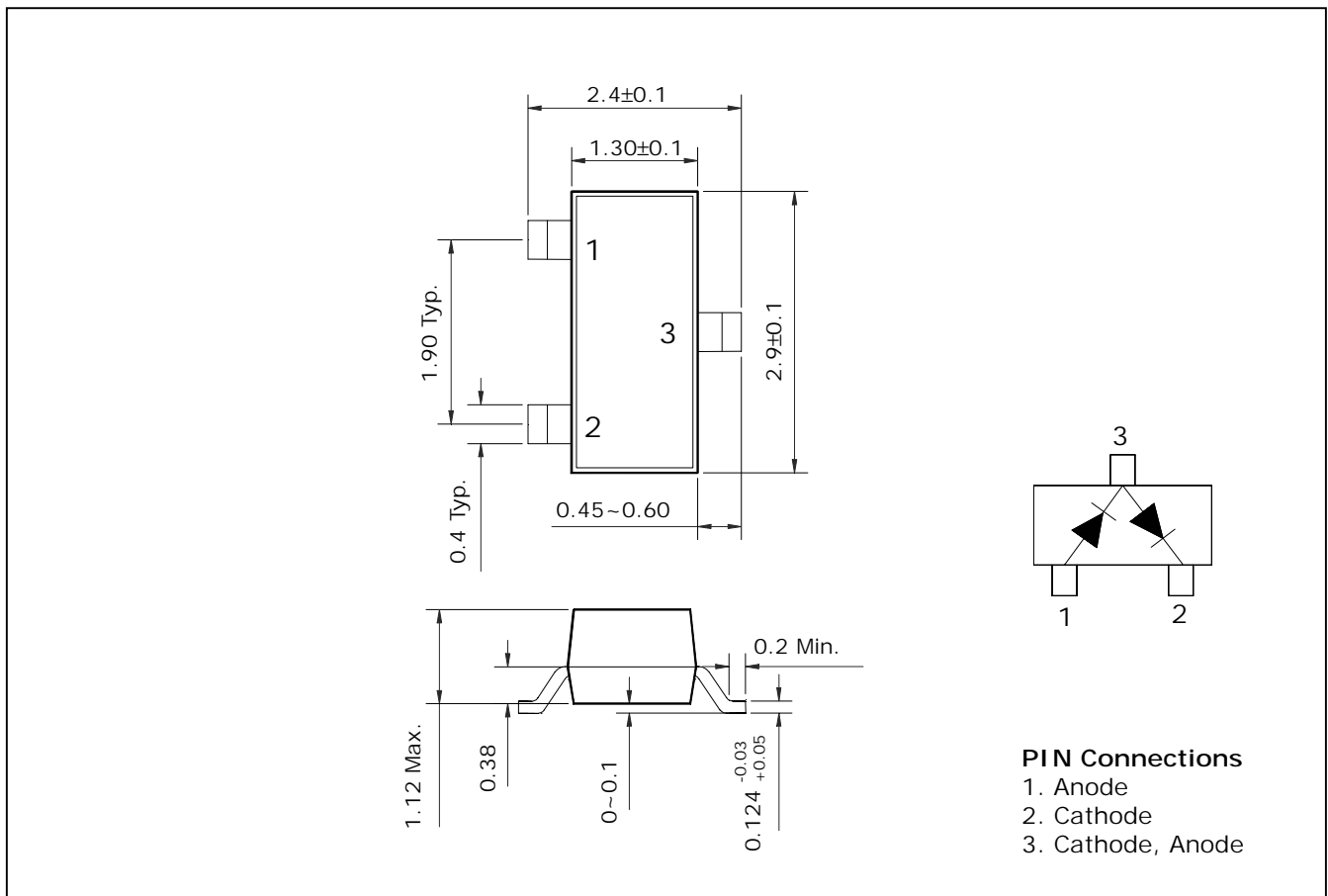
- SMD package : SOT-23
- Low capacitance :  $C_T=0.25\text{pF(Typ.)}$
- Low series resistance :  $r_s=1.5\Omega(\text{Typ.})$
- VHF tuner band RF attenuator application
- AGC for FM tuner

**Ordering Information**

Type No.	Marking	Package Code
SDP510WM	W5M	SOT-23

**Outline Dimensions**

unit : mm



# SDP510WM

## Absolute maximum ratings

Ta=25°C

Characteristic	Symbol	Ratings	Unit
Continuous reverse voltage	$V_R$	50	V
Forward current	$I_F^*$	50	mA
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 ~ 150	°C

\* : Unit ratings. Total rating = Unit rating × 1.5

## Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse voltage	$V_R$	$I_F=10\mu A$	50	-	-	V
Reverse current	$I_R$	$V_R=50V$	-	-	0.1	$\mu A$
Forward voltage	$V_F$	$I_F=50mA$	-	0.95	-	V
Total capacitance	$C_T$	$V_R=50V, f=1MHz$	-	0.25	-	pF
Series resistance	$r_S$	$I_F=10mA, f=100MHz$	-	1.5	-	$\Omega$

Electrical Characteristic Curves

Fig. 1  $C_T-V_R$

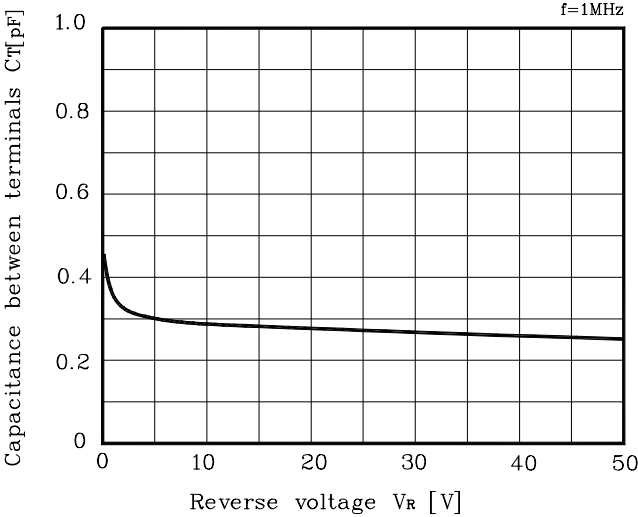


Fig. 2  $r_s-I_F$

