

**Features**

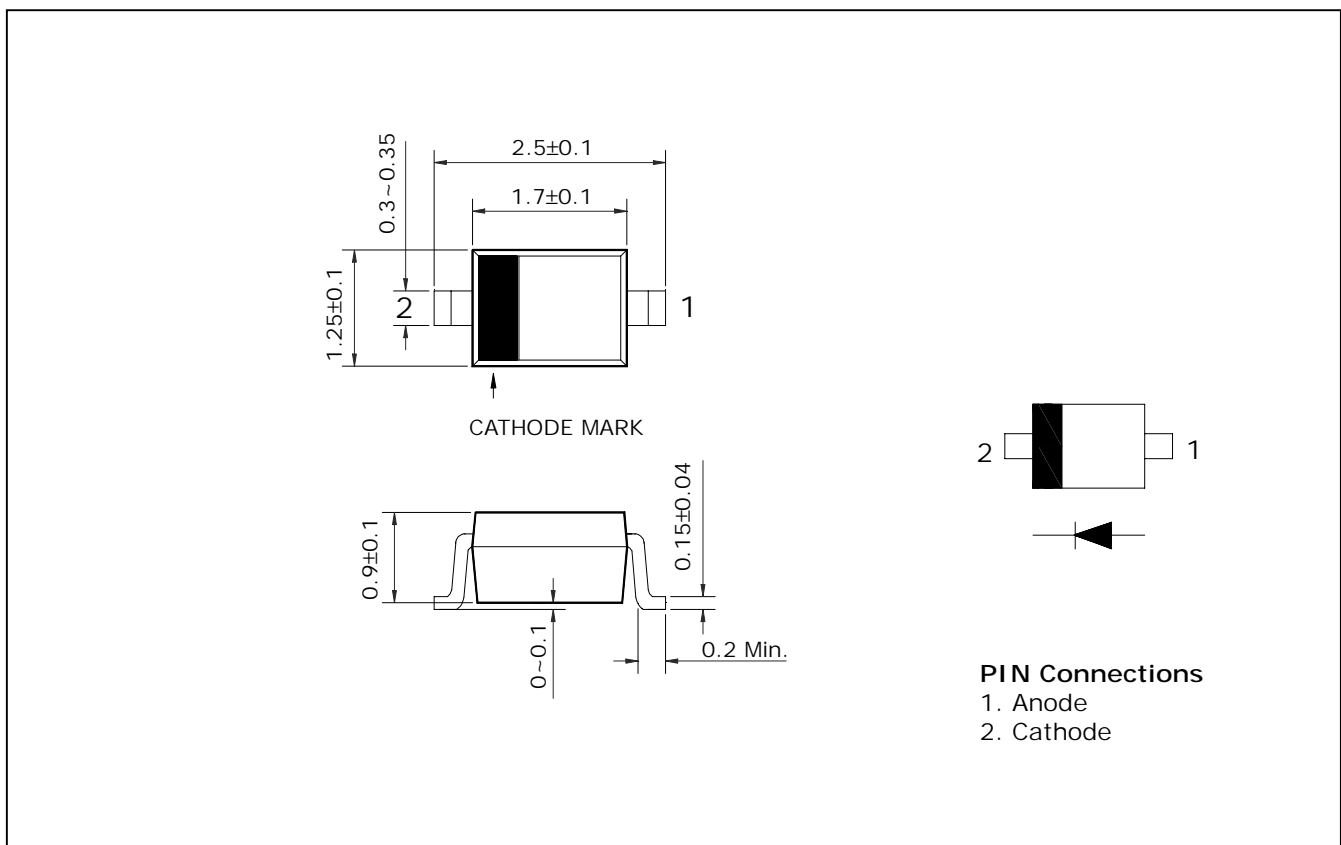
- SMD package : SOD-323
- Low capacitance :  $C_T=0.25\text{pF}$ (Typ.)
- Low series resistance :  $r_s=1.5\Omega$ (Typ.)
- VHF tuner band RF attenuator application
- AGC for FM tuner

**Ordering Information**

Type No.	Marking	Package Code
SDP510D	B3	SOD-323

**Outline Dimensions**

unit : mm



**Absolute maximum ratings****Ta=25°C**

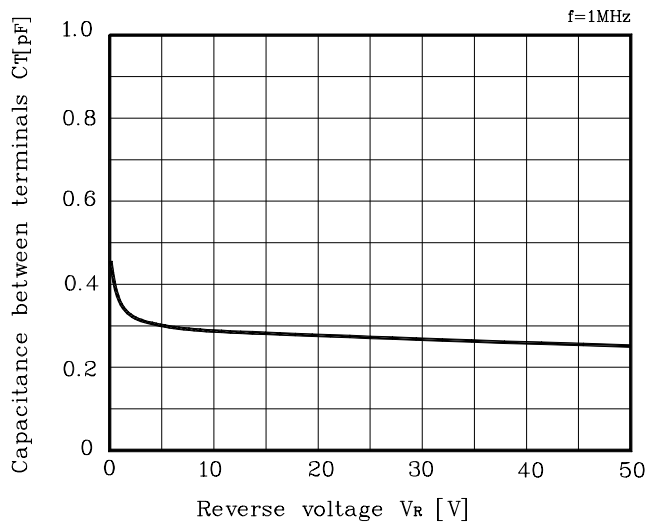
<b>Characteristic</b>	<b>Symbol</b>	<b>Ratings</b>	<b>Unit</b>
Continuous reverse voltage	$V_R$	50	V
Forward current	$I_F^*$	50	mA
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 ~ 150	°C

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

**Electrical Characteristics****Ta=25°C**

<b>Characteristic</b>	<b>Symbol</b>	<b>Test Condition</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>Unit</b>
Reverse voltage	$V_R$	$I_R=10\mu A$	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  $r_s$ - $I_F$ 