

**Features**

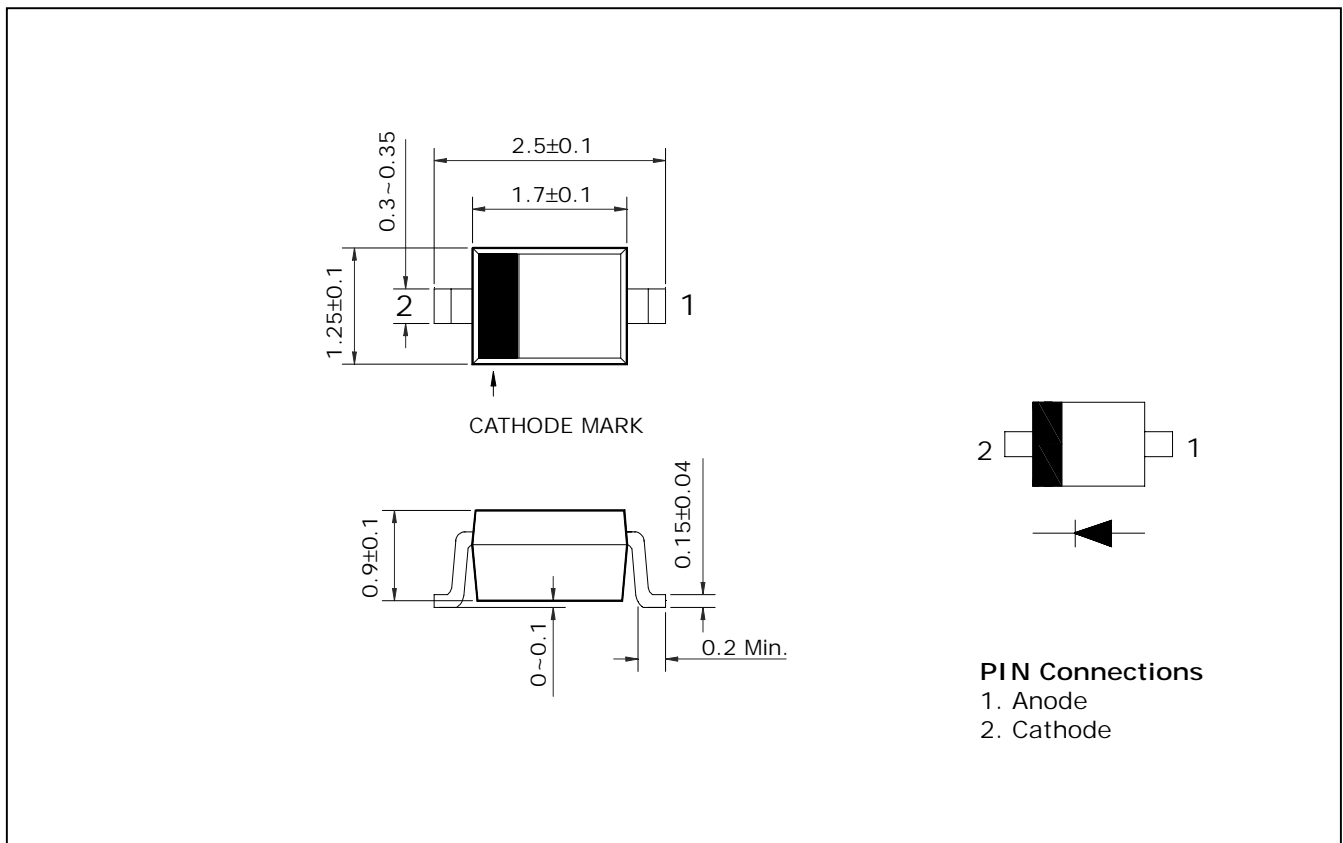
- SMD package : SOD-323
- Low capacitance :  $C_T=0.25\text{pF}$ (Typ.)
- Low series resistance :  $r_s=1.5\Omega$ (Typ.)
- VHF tuner band RF attenuator application
- AGC for FM tuner

**Ordering Information**

Type No.	Marking	Package Code
SDP510D	B3	SOD-323

**Outline Dimensions**

unit : mm



**Absolute maximum ratings****T<sub>a</sub>=25°C**

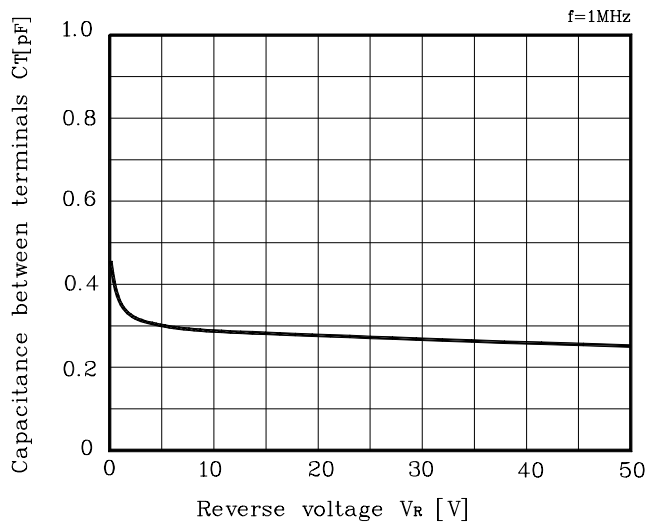
<b>Characteristic</b>	<b>Symbol</b>	<b>Ratings</b>	<b>Unit</b>
Continuous reverse voltage	V <sub>R</sub>	50	V
Forward current	I <sub>F</sub> <sup>*</sup>	50	mA
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 ~ 150	°C

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

**Electrical Characteristics****T<sub>a</sub>=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 <sub>R</sub>	I <sub>R</sub> =10μA	50	-	-	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =50V	-	-	0.1	μA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =50mA	-	0.95	-	V
Total capacitance	C <sub>T</sub>	V <sub>R</sub> =50V, f=1MHz	-	0.25	-	pF
Series resistance	r <sub>S</sub>	I <sub>F</sub> =10mA, f=100MHz	-	1.5	-	Ω

## Electrical Characteristic Curves

Fig. 1  $C_T$ - $V_R$ Fig. 2  $r_s$ - $I_F$ 