

## Features

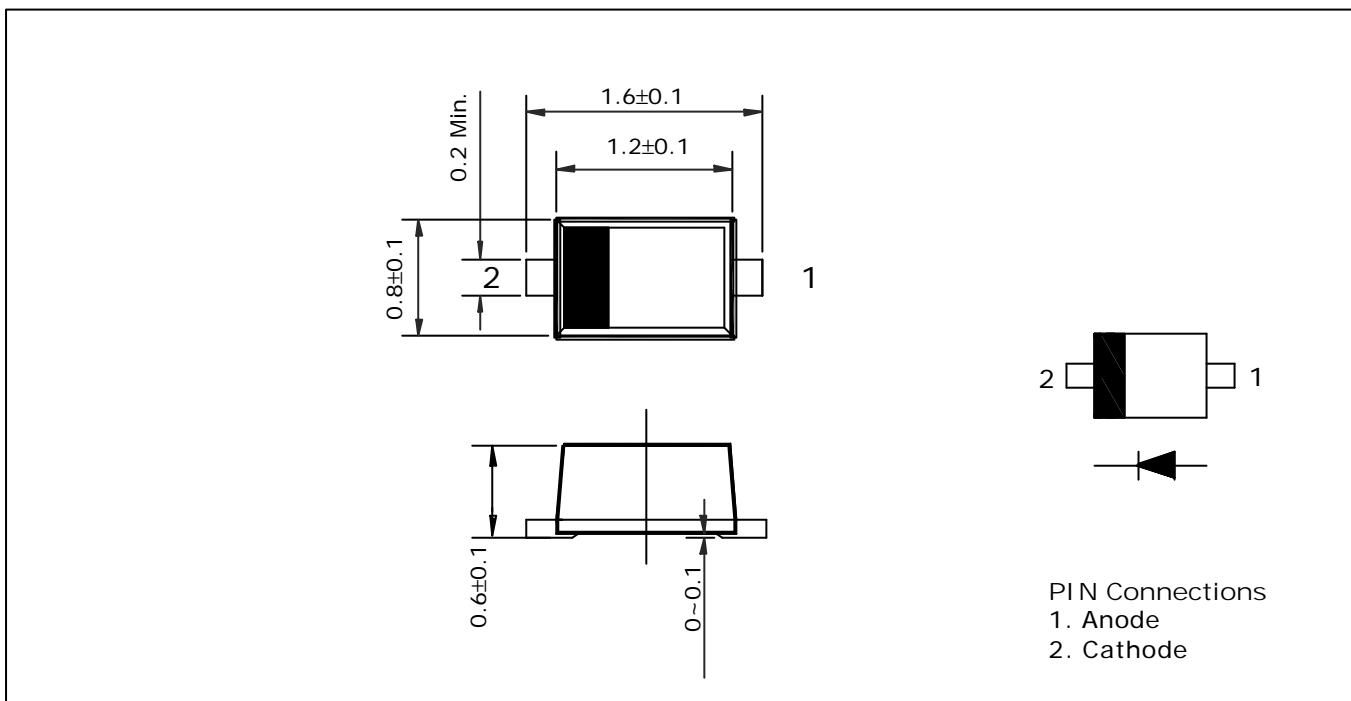
- SMD package : SOD-523
- Low capacitance :  $C_T = 0.25\text{pF}(\text{Typ.})$
- Low series resistance :  $r_s = 7\Omega(\text{Typ.})$
- VHF tuner band RF attenuator application
- AGC for FM tuner

## Ordering Information

Type No.	Marking	Package Code
SDP520Q	2M	SOD-523

## Outline Dimensions

unit : mm



**Absolute maximum ratings**

Ta=25°C

Characteristic	Symbol	Ratings	Unit
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**

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
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	0.5	pF
Series resistance	r <sub>S</sub>	I <sub>F</sub> =0.01mA, f=100MHz	-	2800	-	Ω
		I <sub>F</sub> =0.1mA, f=100MHz	-	380	-	Ω
		I <sub>F</sub> =1mA, f=100MHz	-	45	-	Ω
		I <sub>F</sub> =10mA, f=100MHz	-	7	-	Ω

Fig. 1  $I_C$ - $T_a$

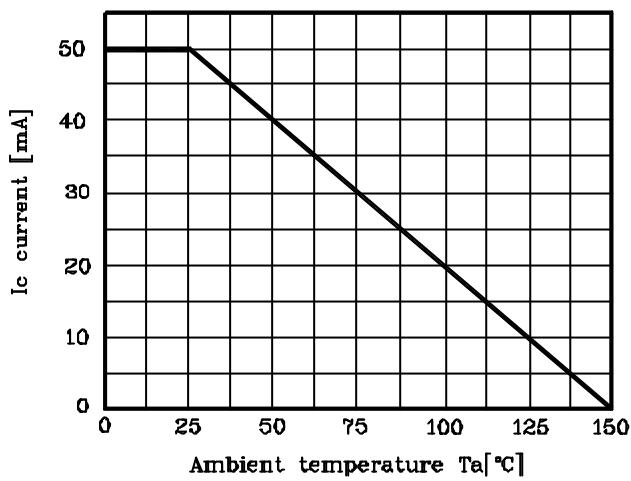


Fig. 2  $I_F$ - $V_F$

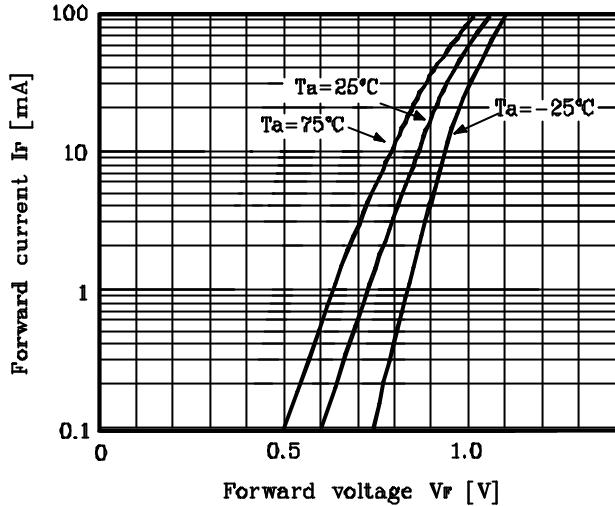


Fig. 3  $C_T$ - $V_R$

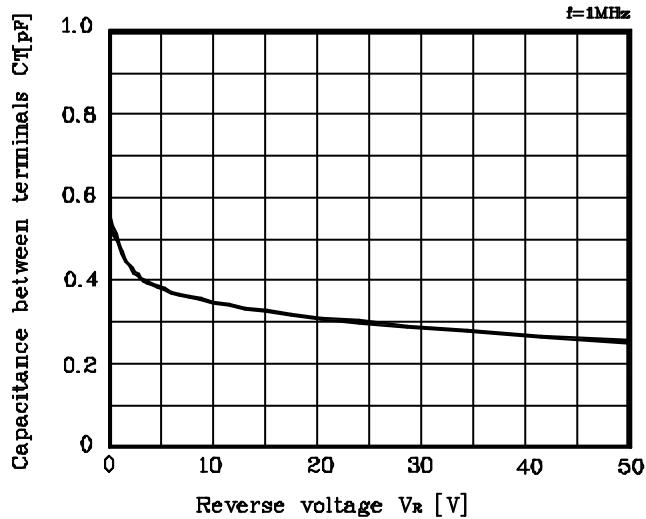


Fig. 4  $r_s$ - $I_F$

