

**Features**

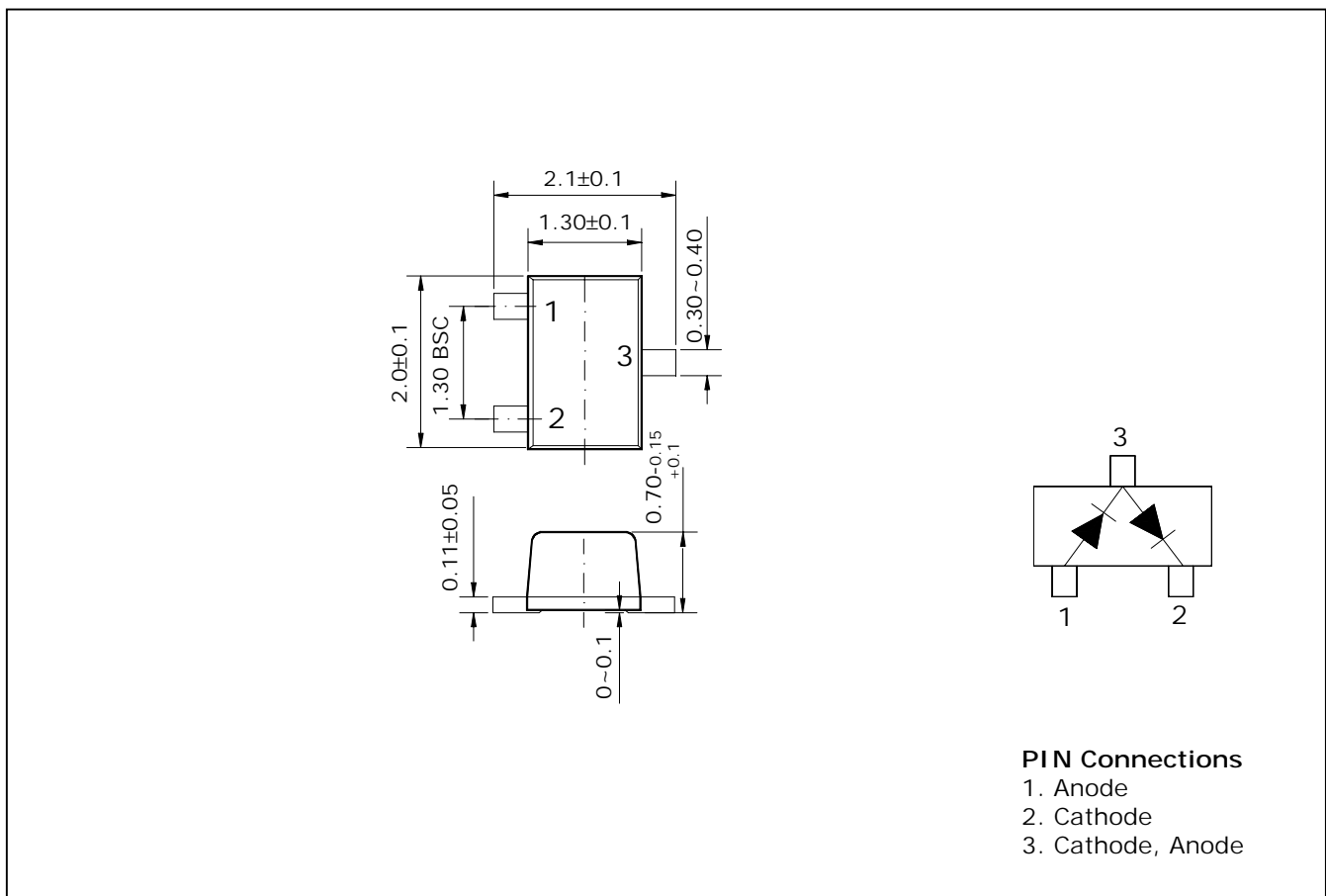
- Low capacitance : Max 0.5pF
- Low series resistance :  $r_s = 3\Omega$  (Typ.) @  $I_F = 10\text{mA}$
- AGC and attenuator diode for VHF/UHF band tuner

**Ordering Information**

Type No.	Marking	Package Code
SDP530WMU	W3M	SOT-323F

**Outline Dimensions**

unit : mm



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

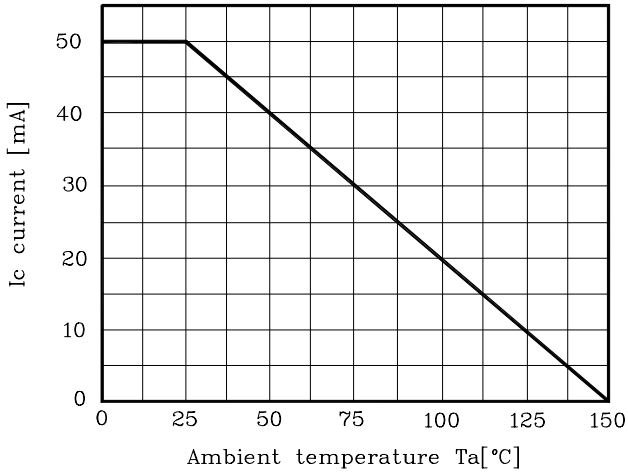
Characteristic	Symbol	Ratings	Unit
Continuous reverse voltage	V <sub>R</sub>	50	V
Forward current	I <sub>F</sub> <sup>*</sup>	50	mA
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 ~ 150	°C

**Electrical Characteristics****T<sub>a</sub>=25°C**

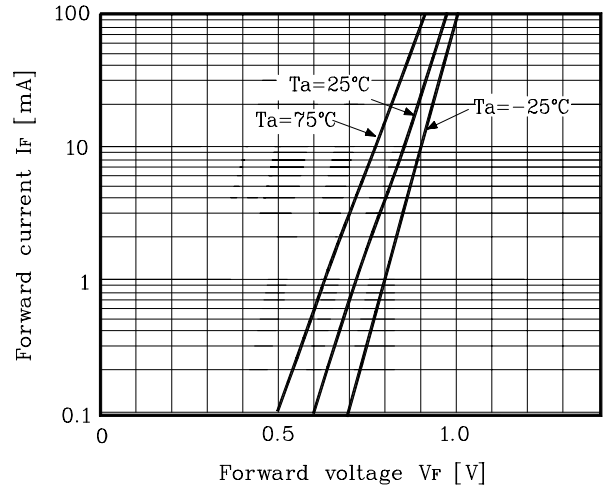
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse voltage	V <sub>R</sub>	I <sub>R</sub> =10μA	50	-	-	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =50V	-	-	0.1	μA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =50mA	-	0.95	-	V
Total capacitance	C <sub>T</sub>	V <sub>R</sub> =50V, f=1MHz	-	-	0.5	pF
Series resistance	r <sub>S</sub>	I <sub>F</sub> =0.1mA, f=100MHz	-	130	-	Ω
		I <sub>F</sub> =1mA, f=100MHz	-	17	-	Ω
		I <sub>F</sub> =10mA, f=100MHz	-	3	-	Ω

## Electrical Characteristic Curves

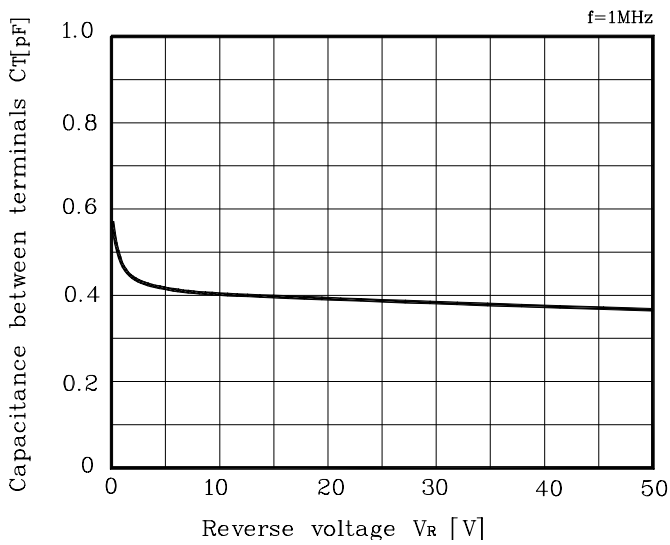
**Fig. 1  $I_C-T_a$**



**Fig. 2  $I_F-V_F$**



**Fig. 3  $C_T-V_R$**



**Fig. 4  $r_s-I_F$**

