AUK Semiconductor

SDP410D

Band switching Diode

Features

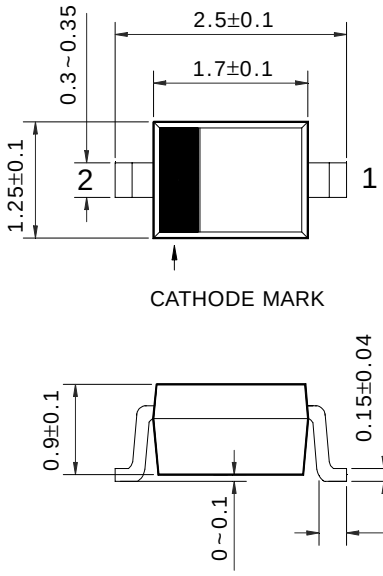
- VHF tuner band switch applications.
- Low Series Resistance : r_S = 0.9Ω(Max.)
- Small Total Capacitance : C_T = 1.2pF(Max.)

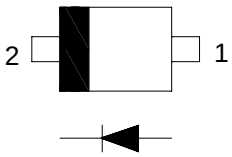
Ordering Information

Type No.	Marking	Package Code
SDP410D	B2	SOD-323

Outline Dimensions

unit : mm





PIN Connections

1. Anode
2. Cathode

Absolute maximum ratings

Ta=25°C

Characteristic	Symbol	Ratings	Unit
Continuous reverse voltage	V_R	30	V
Forward current	I_F	100	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ 150	°C

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	V_F	I_F=2mA	-	-	0.85	V
Reverse current	I_R	V_R=15V	-	-	0.1	μA
Reverse voltage	V_R	I_R=1μA	30	-	-	V
Total capacitance	C_T	V_R=6V, f=1MHz	-	0.7	1.2	pF
Series resistance	r_S	I_F=2mA, f=100MHz	-	0.5	0.9	Ω

Electrical Characteristic Curves

Fig. 1 r_S-I_F

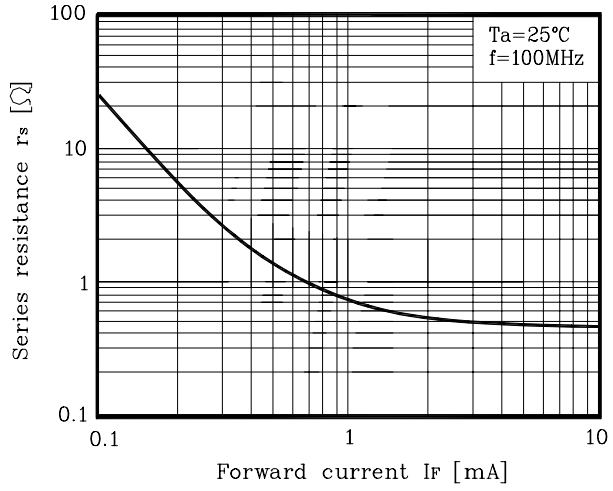


Fig. 2 C_T-V_R

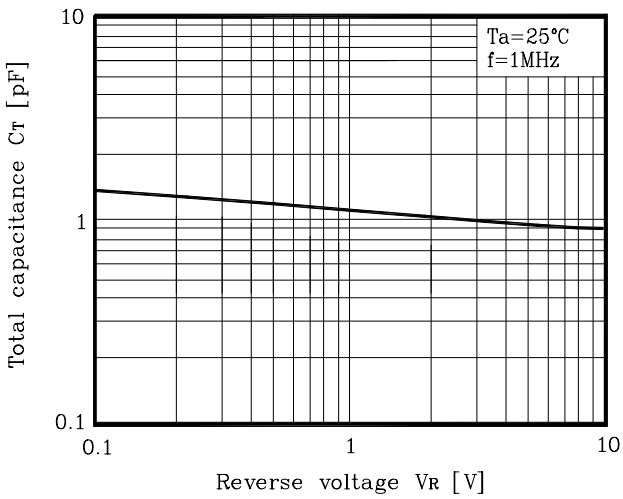


Fig. 3 I_F-V_F

