

Features

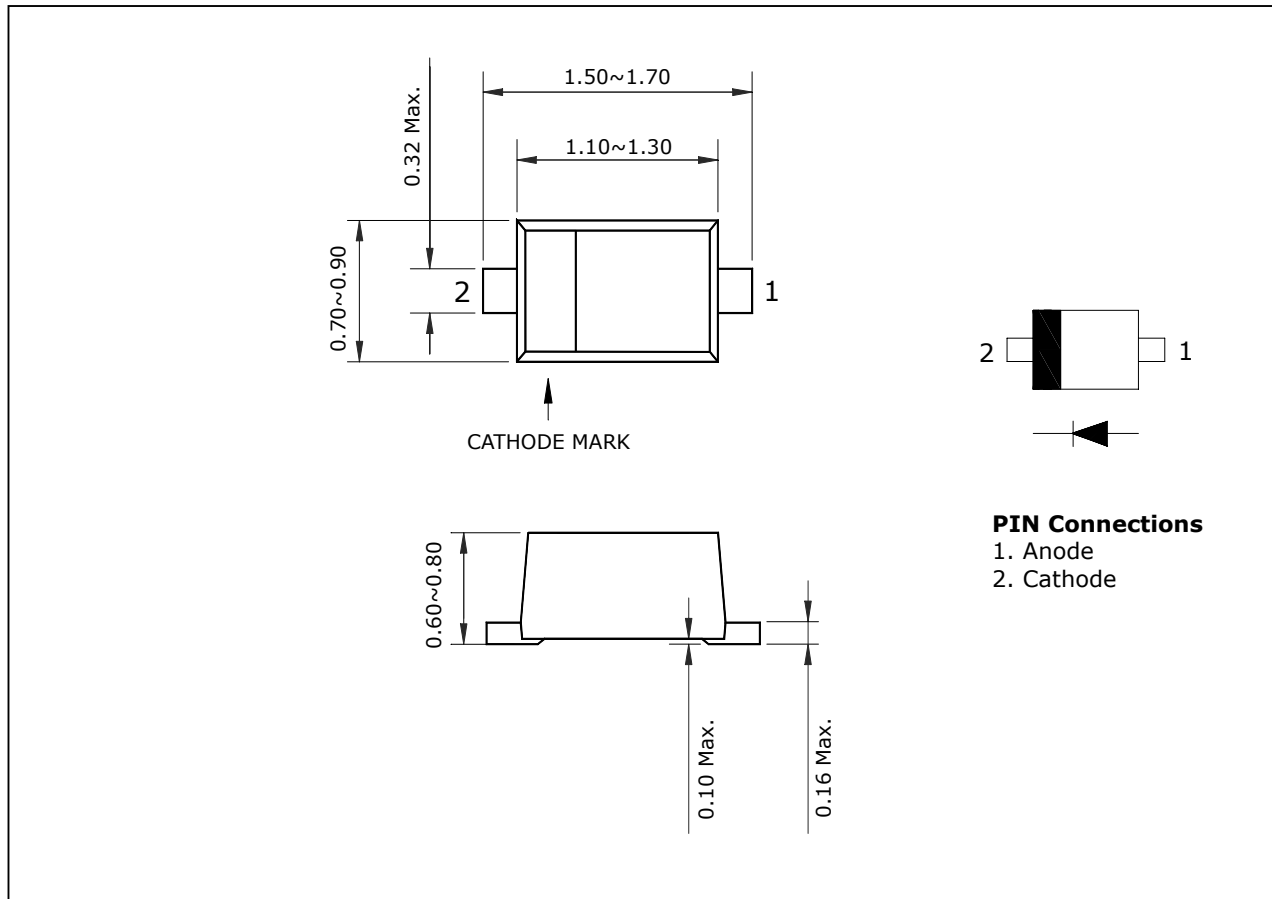
- SMD package : SOD-523
- Low capacitance : $C_T=0.25\text{pF(Typ.)}$
- Low series resistance : $r_s=7\Omega(\text{Typ.})$
- VHF tuner band RF attenuator application
- AGC for FM tuner

Ordering Information

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

Outline Dimensions

unit : mm



Absolute maximum ratings

Ta=25°C

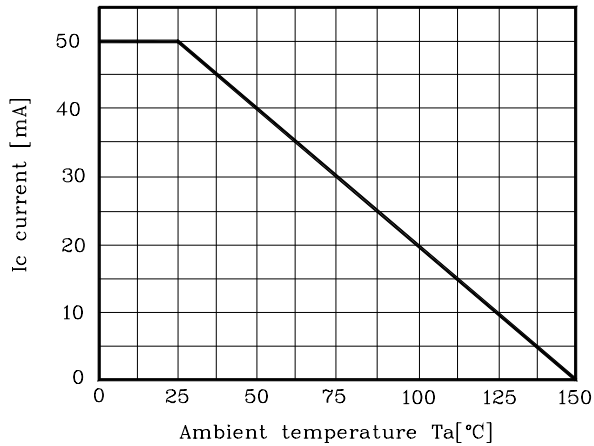
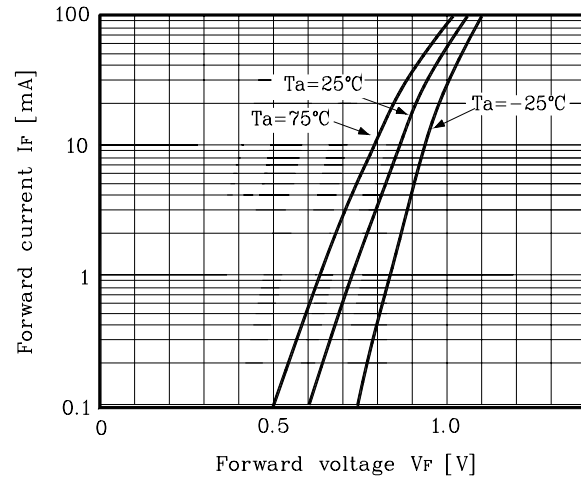
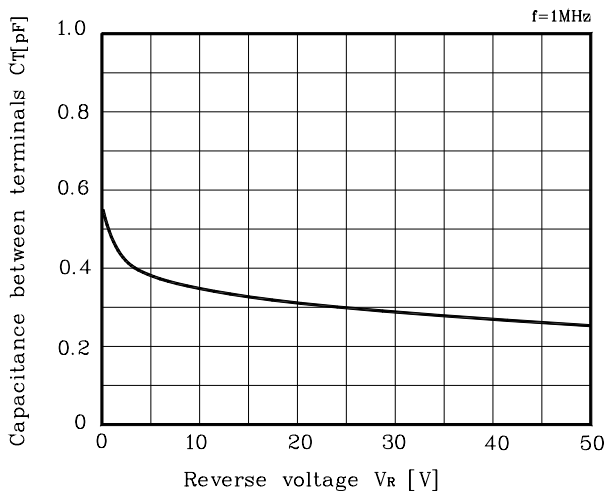
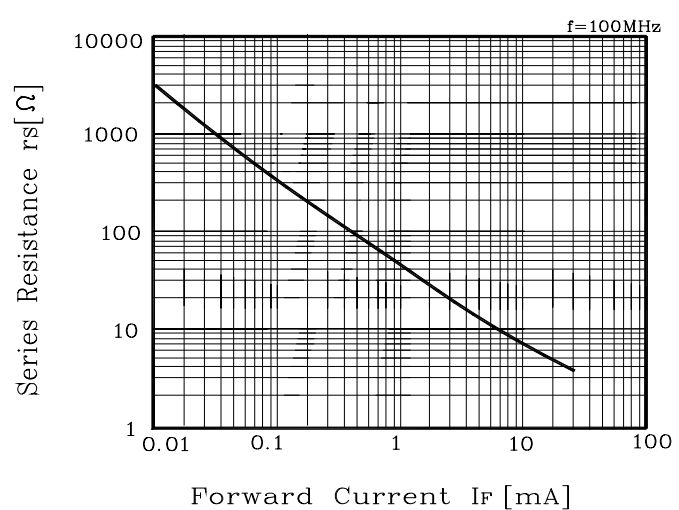
Characteristic	Symbol	Ratings	Unit
Continuous reverse voltage	V_R	50	V
Forward current	I_F^*	50	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ 150	°C

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

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse voltage	V_R	$I_R=10\mu A$	50	-	-	V
Reverse current	I_R	$V_R=50V$	-	-	0.1	μA
Forward voltage	V_F	$I_F=50mA$	-	0.95	-	V
Total capacitance	C_T	$V_R=50V, f=1MHz$	-	0.25	0.5	pF
Series resistance	r_S	$I_F=0.01mA, f=100MHz$	-	2800	-	Ω
		$I_F=0.1mA, f=100MHz$	-	380	-	Ω
		$I_F=1mA, f=100MHz$	-	45	-	Ω
		$I_F=10mA, f=100MHz$	-	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 

The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).

Please make sure that you consult with us before you use these AUK Corp. products in equipments which require high quality and / or reliability, and in equipments which could have major impact to the welfare of human life (atomic energy control, airplane, spaceship, transportation, combustion control, all types of safety device, etc.). AUK Corp. cannot accept liability to any damage which may occur in case these AUK Corp. products were used in the mentioned equipments without prior consultation with AUK Corp..

Specifications mentioned in this publication are subject to change without notice.