

Features

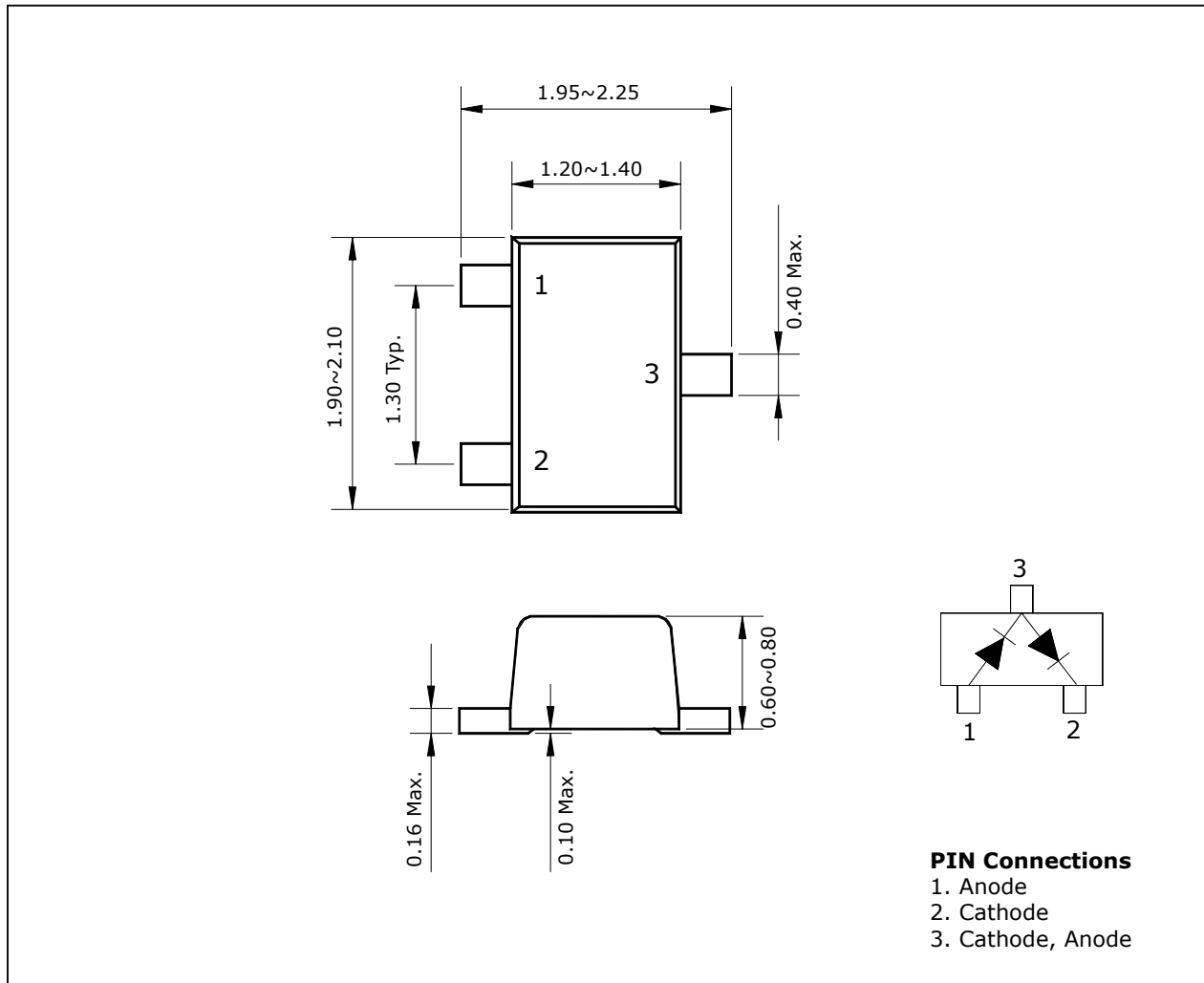
- SMD package : SOT-323F
- Low capacitance : $C_T=0.25\text{pF(Typ.)}$
- Low series resistance : $r_s=7\Omega\text{(Typ.)}$
- VHF tuner band RF attenuator application
- AGC for UHF/VHF Tuner

Ordering Information

Type No.	Marking	Package Code
SDP520WMUF	2M	SOT-323F

Outline Dimensions

unit : mm



SDP520WMUF

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 =10μA	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

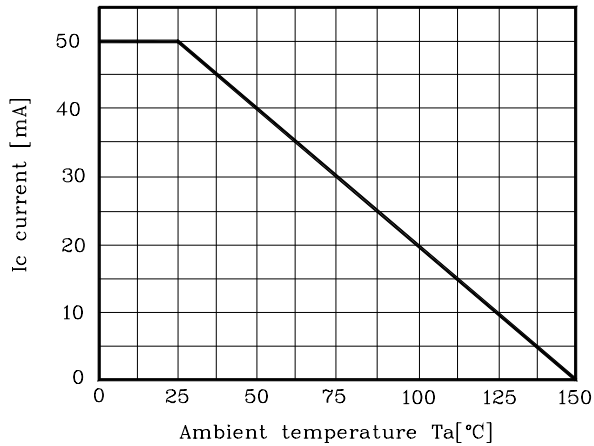


Fig. 2 I_F-V_F

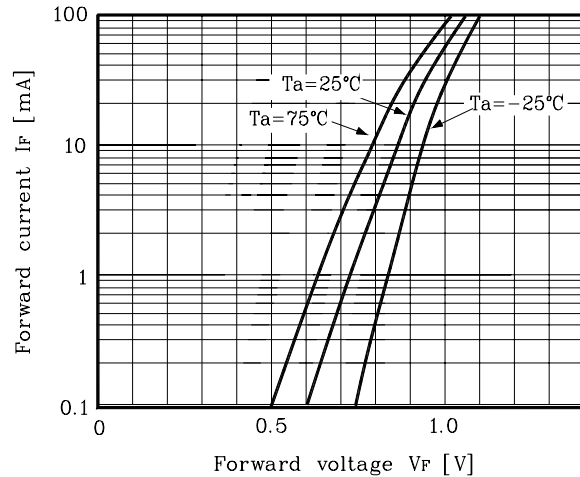


Fig. 3 C_T-V_R

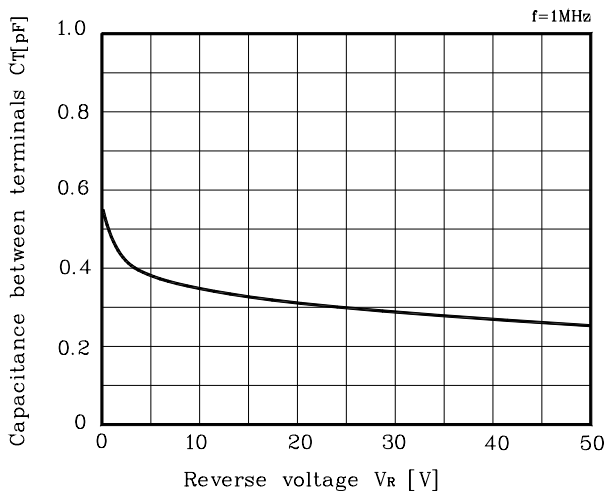
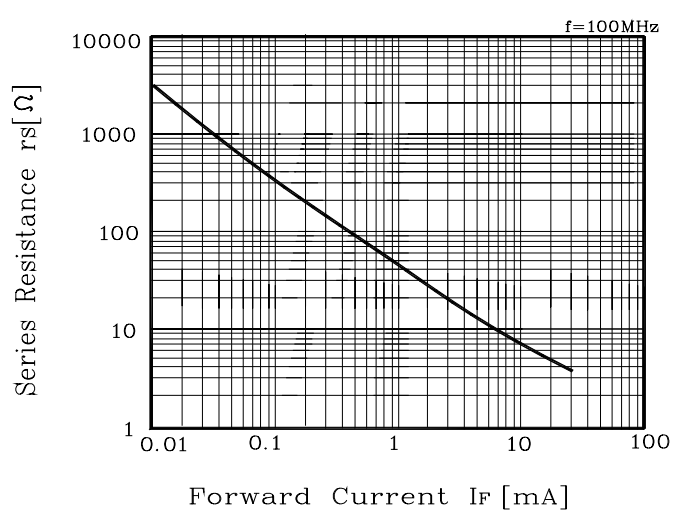


Fig. 4 r_s-I_F



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.