

**1SV247**

Silicon Epitaxial Type

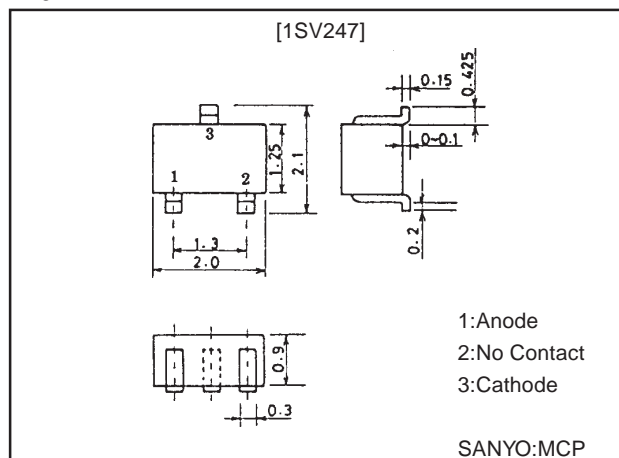
**PIN Diode for VHF, UHF, AGC Applications****Features**

- Very small-sized package facilitates high-density mounting and permits 1SV247-applied equipment to be made smaller.
- Small interterminal capacitance ( $C=0.23\text{pF}$  typ).
- Small forward series resistance ( $r_s=5\Omega$  typ).

**Package Dimensions**

unit:mm

1197A

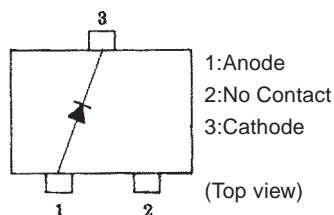
**Specifications****Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	$V_R$		50	V
Forward Current	$I_F$		50	mA
Allowable Power Dissipation	P		100	mW
Junction Temperature	$T_j$		125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +125	$^\circ\text{C}$

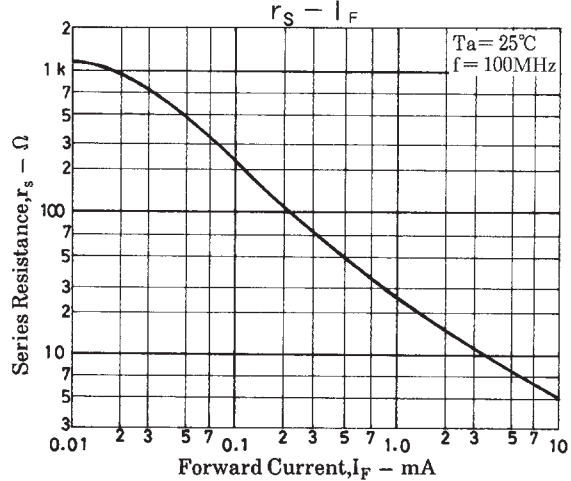
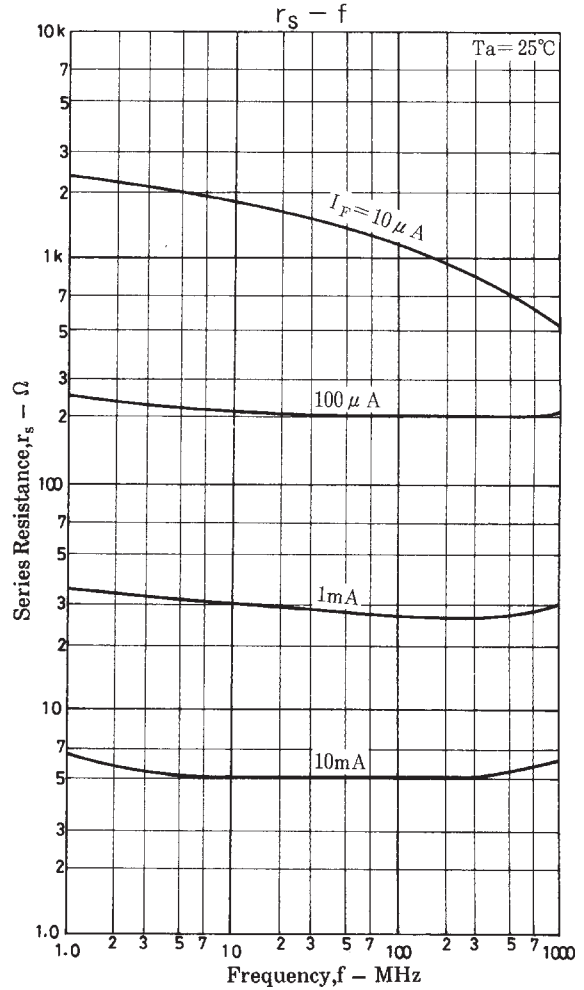
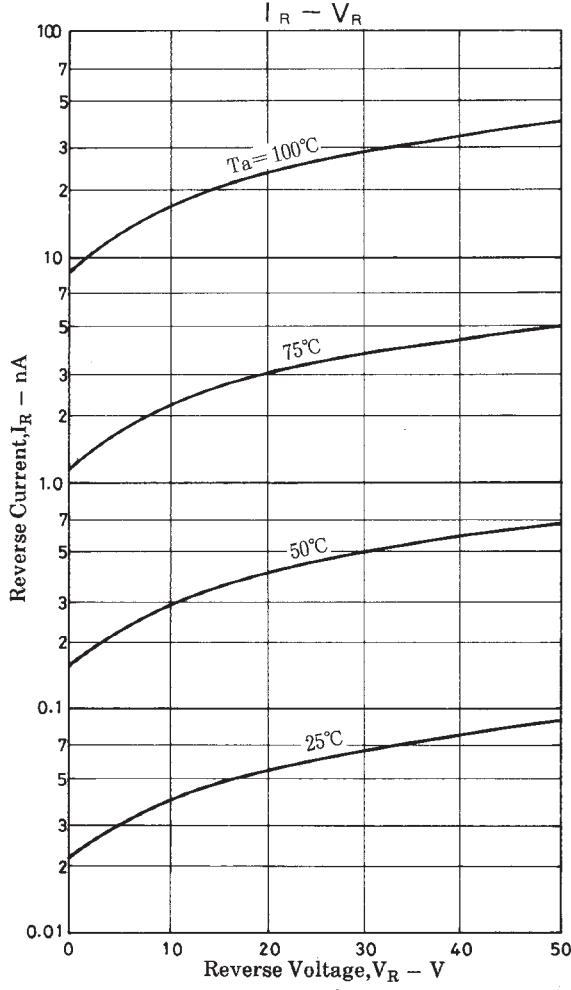
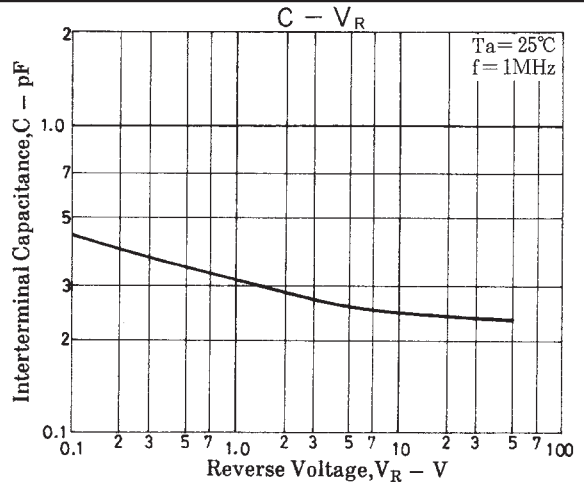
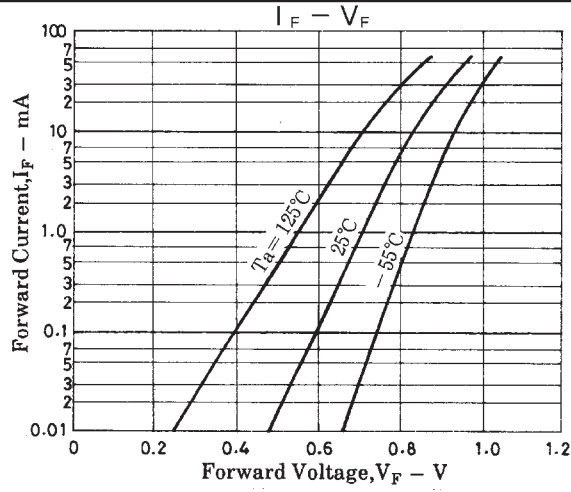
**Electrical Characteristics at  $T_a = 25^\circ\text{C}$** 

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=10\mu\text{A}$	50			V
Reverse Current	$I_R$	$V_R=50\text{V}$			0.1	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=50\text{mA}$		0.95		V
Interterminal Capacitance	C	$V_R=50\text{V}, f=1\text{MHz}$		0.23		pF
Series Resistance	$r_s$	$I_F=10\text{mA}, f=100\text{MHz}$		5		$\Omega$

· Marking:BV

**Electrical Connection**

# 1SV247



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