

**1SV294**

Silicon Epitaxial PIN Diode

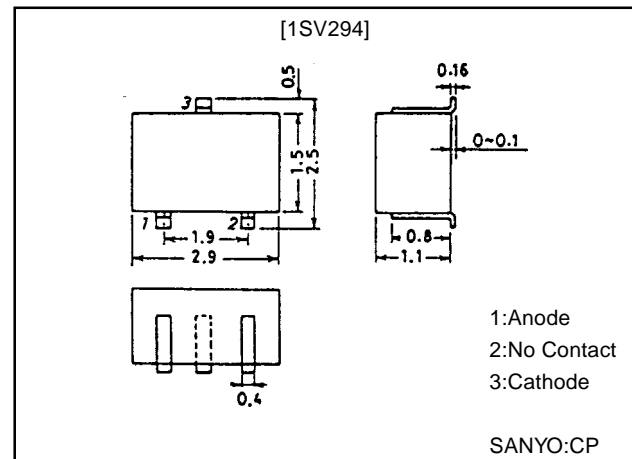
**Variabe Resistance Attenuator Use****Features**

- Small-sized package facilitates high-density mounting and permits 1SV294-applied equipment to be made smaller.
- Small interterminal capacitance ( $C=0.23\text{pF}$  typ).
- Small forward series resistance ( $r_s=2.5\Omega$  typ).

**Package Dimensions**

unit:mm

1148A

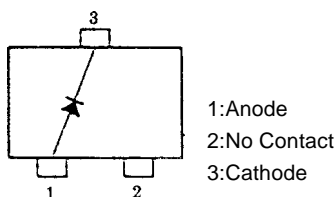
**Specifications****Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	$V_R$		50	V
Forward Current	$I_F$		50	mA
Allowable Power Dissipation	P		150	mW
Junction Temperature	$T_j$		125	$^\circ\text{C}$
Storage Temperature	$T_{\text{stg}}$		-55 to +125	$^\circ\text{C}$

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

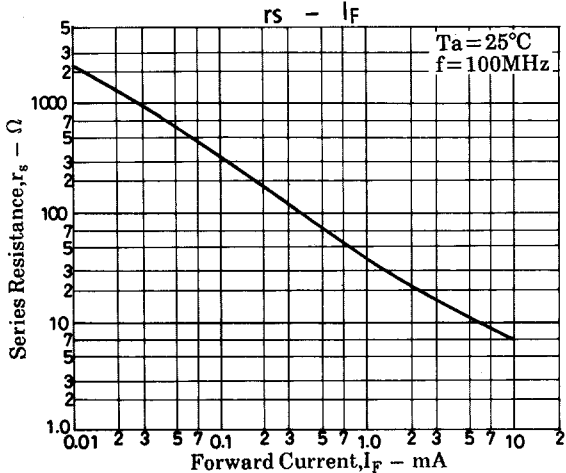
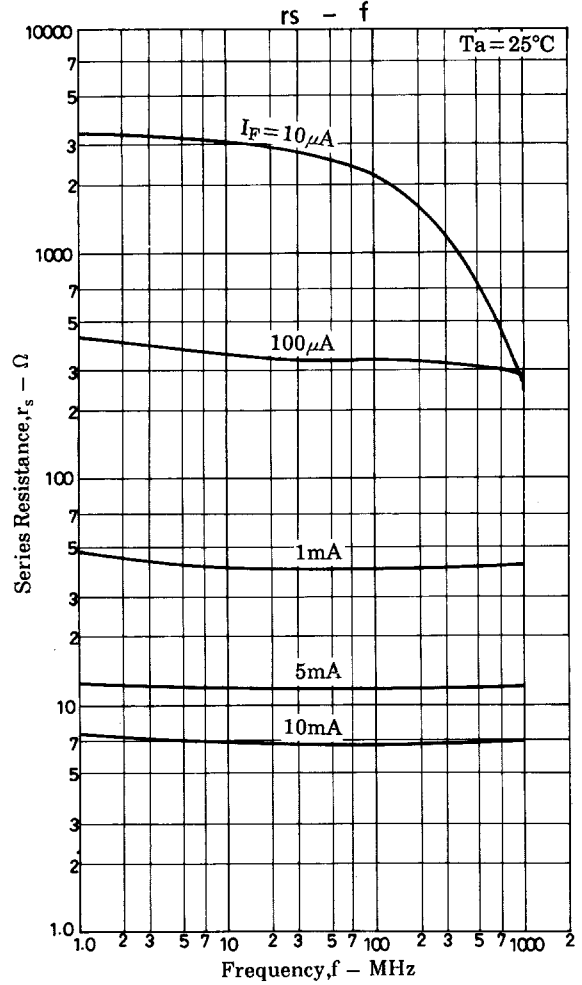
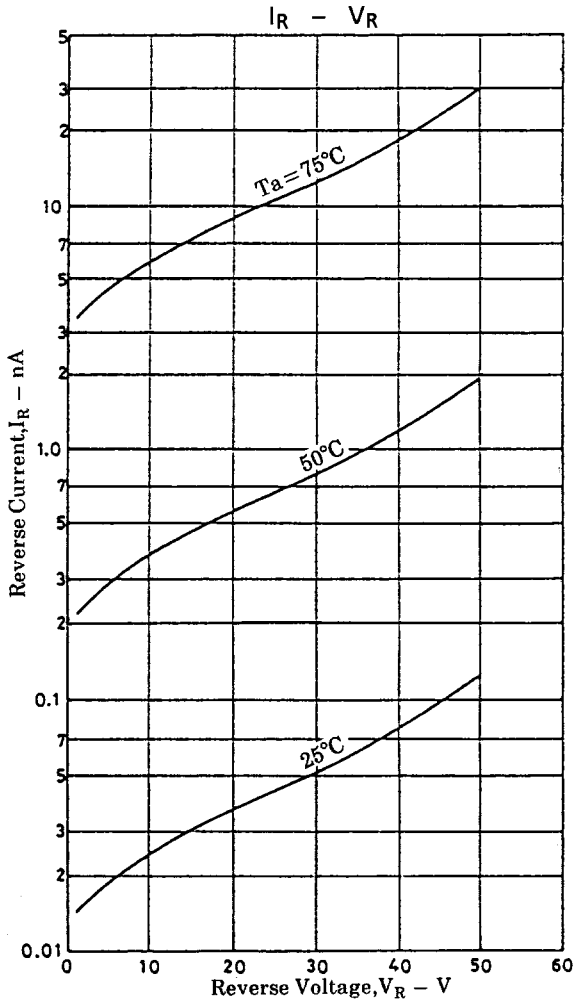
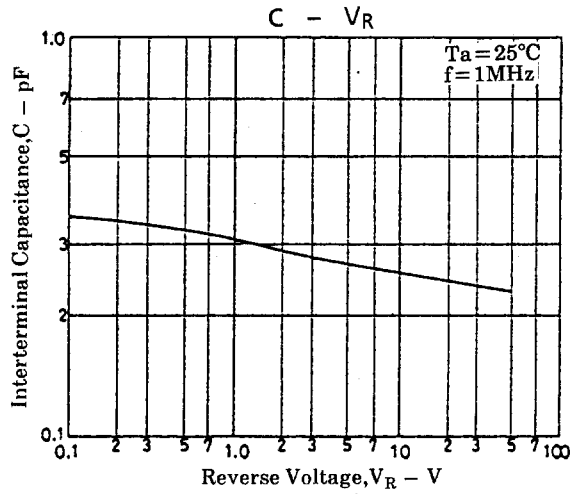
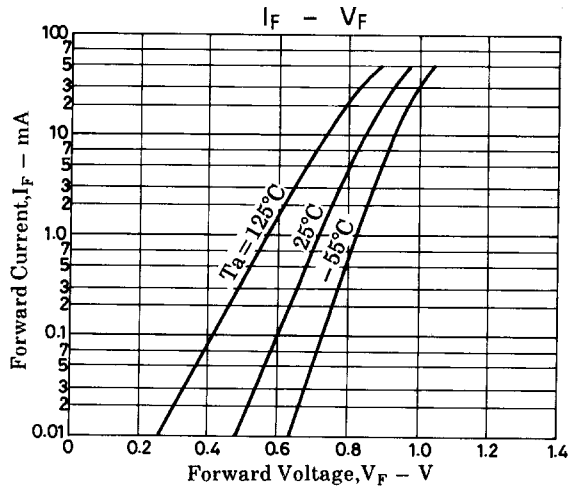
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=10\mu\text{A}$	50			V
Reverse Current	$I_R$	$V_R=50\text{V}$			0.1	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=50\text{mA}$		0.975	1.15	V
Interterminal Capacitance	C	$V_R=50\text{V}$ , $f=1\text{MHz}$		0.23		pF
Series Resistance	$r_s$	$I_F=10\mu\text{A}$ , $f=100\text{MHz}$		2400		$\Omega$
		$I_F=10\text{mA}$ , $f=100\text{MHz}$	6.5	7.5	10.0	$\Omega$

· Marking:PV

**Electrical Connection**

1: Anode  
2: No Contact  
3: Cathode

# 1SV294



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