

**1SV294**

Silicon Epitaxial PIN Diode

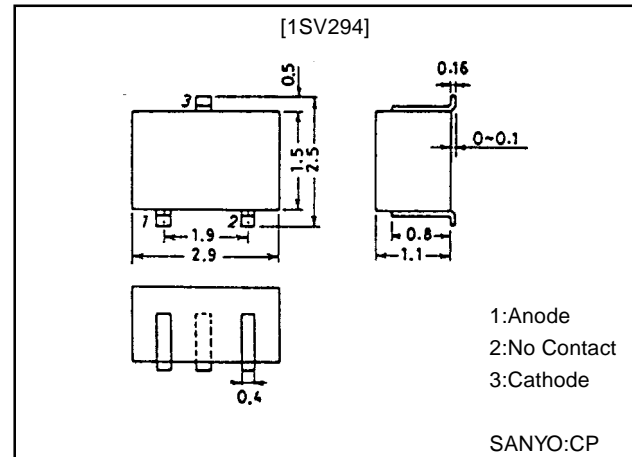
Variabe Resistance Attenuator Use**Features**

- 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

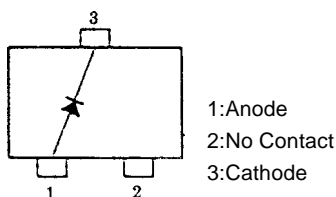
**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$**

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_{stg}		-55 to +125	$^\circ\text{C}$

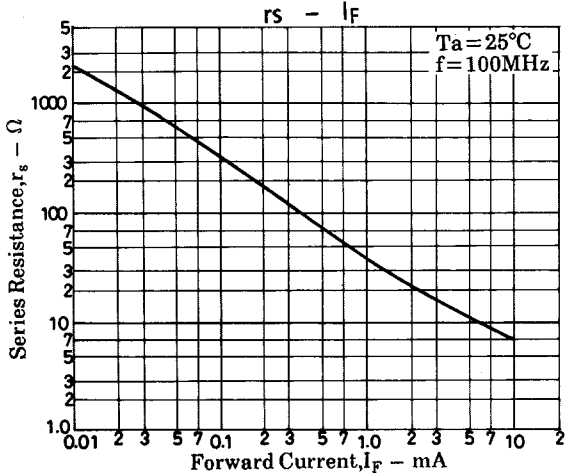
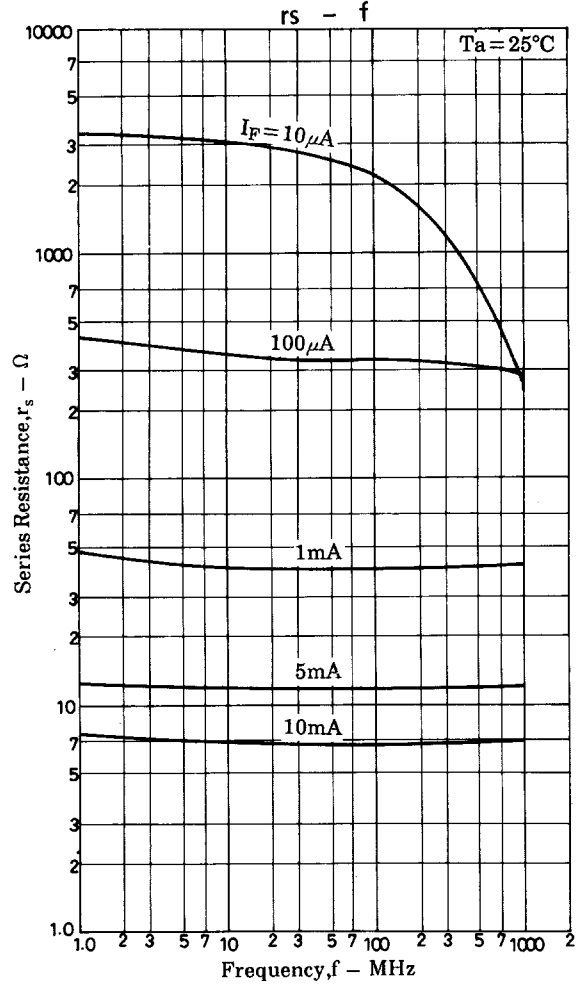
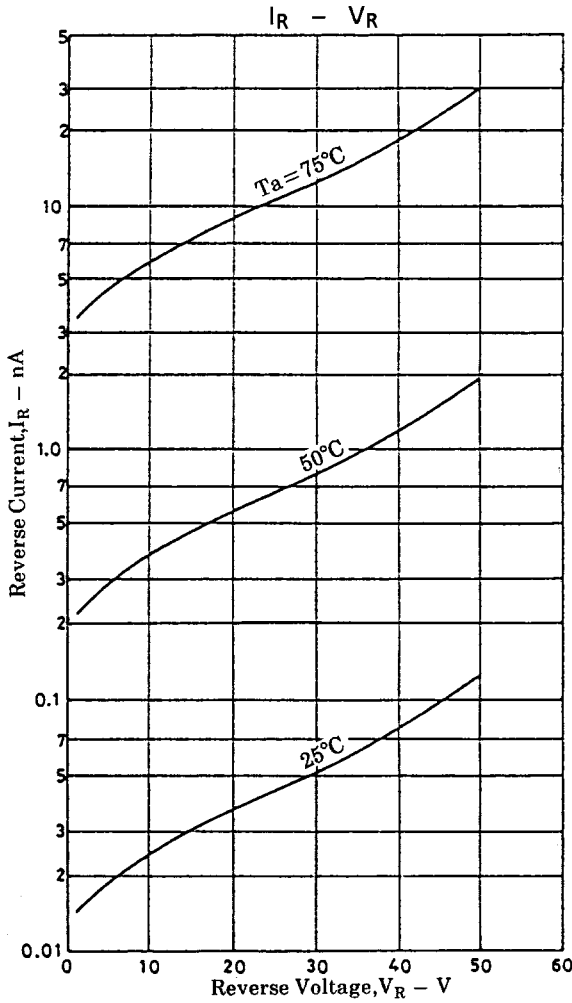
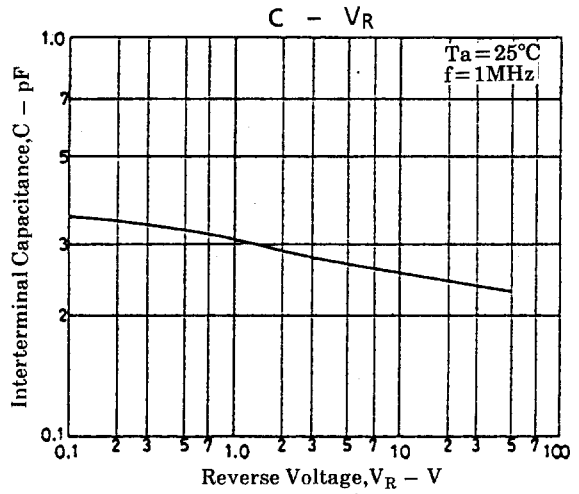
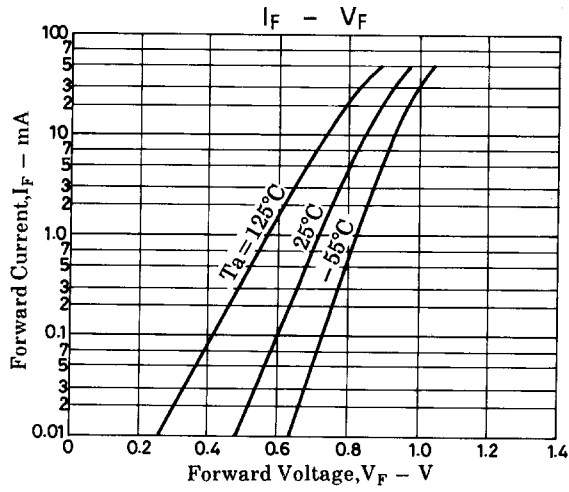
Electrical Characteristics at $T_a = 25^\circ\text{C}$

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	μA
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		Ω
		$I_F=10\text{mA}$, $f=100\text{MHz}$	6.5	7.5	10.0	Ω

· Marking:PV

Electrical Connection

1SV294



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