

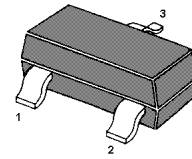
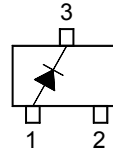
# 1PS250

## Silicon Epitaxial Planar PIN Diode

for VHF, UHF, AGC applications

### Features

- Low forward series resistance
- Low capacitance



Marking Code: **FV**  
SOT-23 Plastic Package

### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	50	V
Continuous Forward Current	$I_{F(AV)}$	50	mA
Total Power Dissipation	$P_{tot}$	150	mW
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 125	$^\circ\text{C}$

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

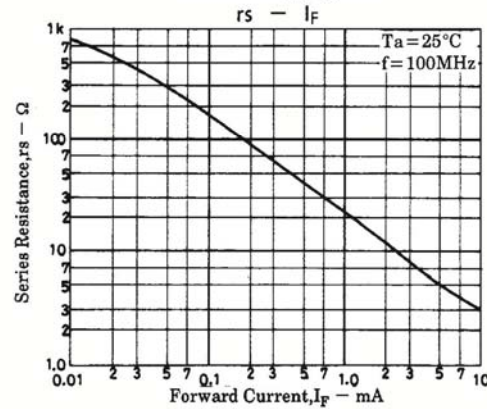
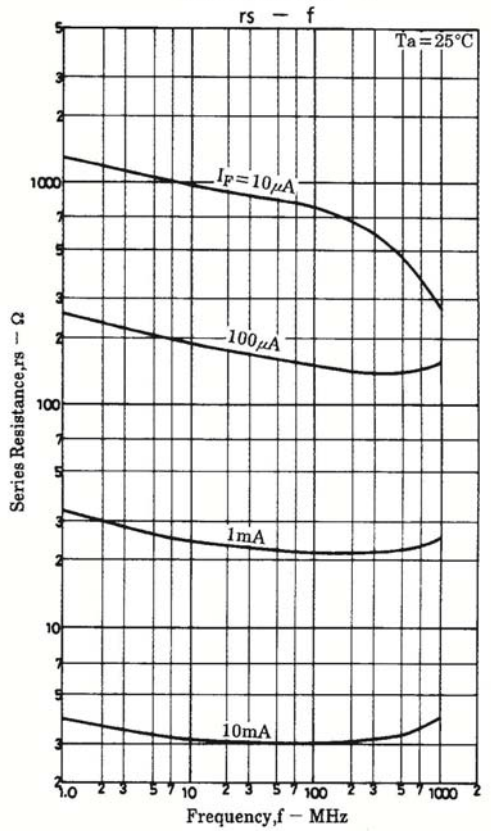
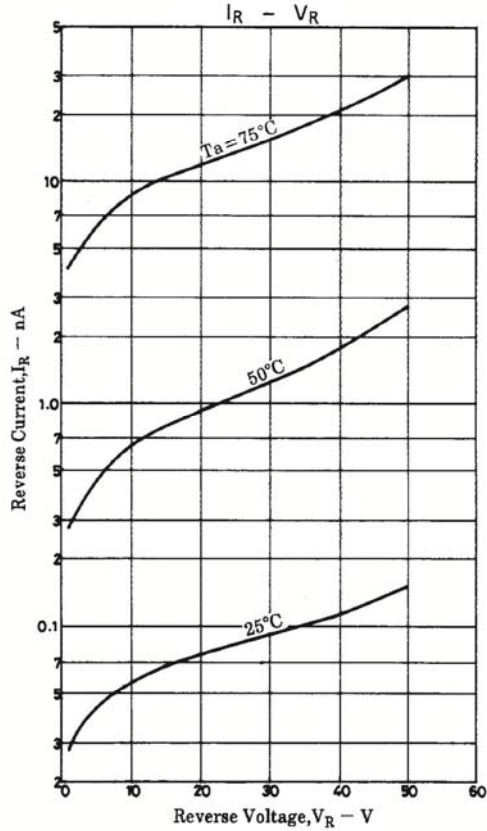
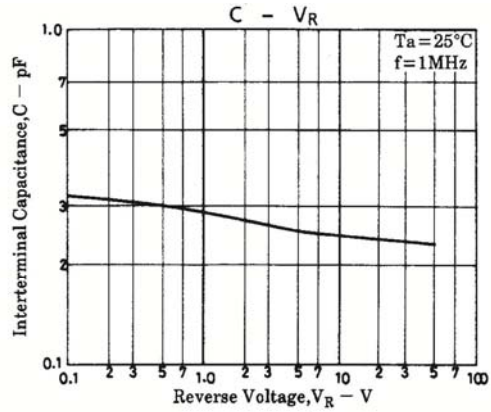
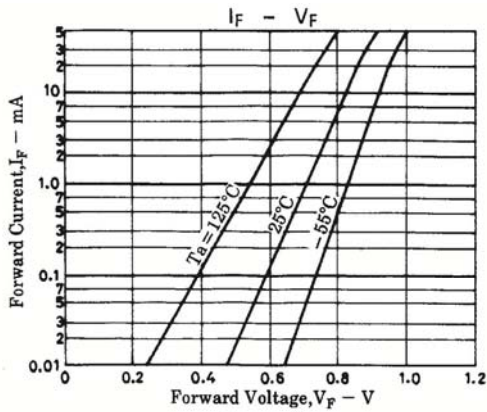
Parameter	Symbol	Min.	Max.	Unit
Reverse Voltage at $I_R = 10\text{ }\mu\text{A}$	$V_R$	50	-	V
Forward Voltage at $I_F = 50\text{ mA}$	$V_F$	-	1.1	V
Reverse Current at $V_R = 50\text{ V}$	$I_R$	-	100	nA
Capacitance between Terminal at $V_R = 50\text{ V}$ , $f = 1\text{ MHz}$	$C_t$	-	0.45	pF
Series Resistance at $I_F = 10\text{ mA}$ , $f = 100\text{ MHz}$	$r_s$	-	4.5	$\Omega$

**TOP DYNAMIC**



Dated : 21/06/2012 Rev:01

# 1PS250



**TOP DYNAMIC**

