

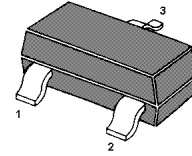
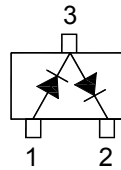
1PS251SE

Silicon Epitaxial Planar PIN Diode

for VHF, UHF, AGC applications

Features

- Low forward series resistance
- Low capacitance



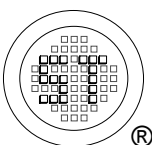
Marking Code: **GV**
SOT-23 Plastic Package

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

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 $T_a = 25^\circ\text{C}$

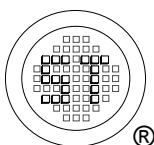
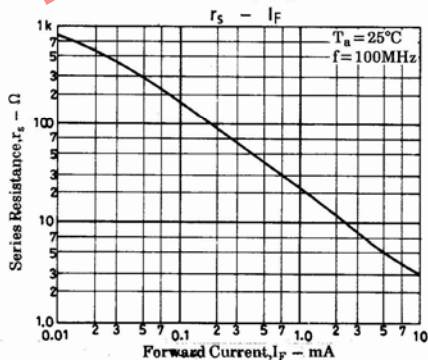
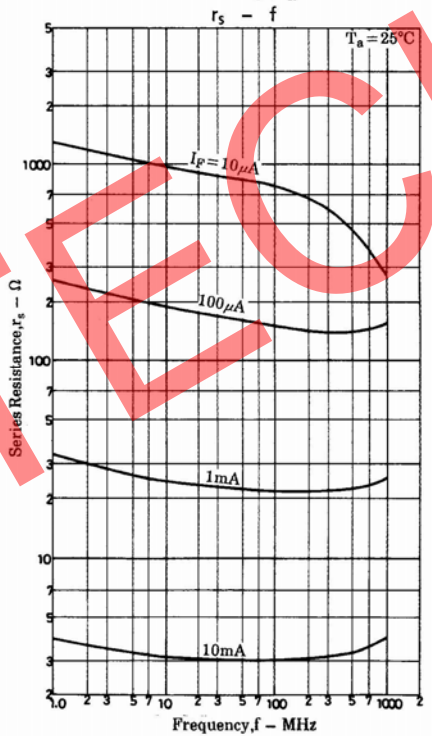
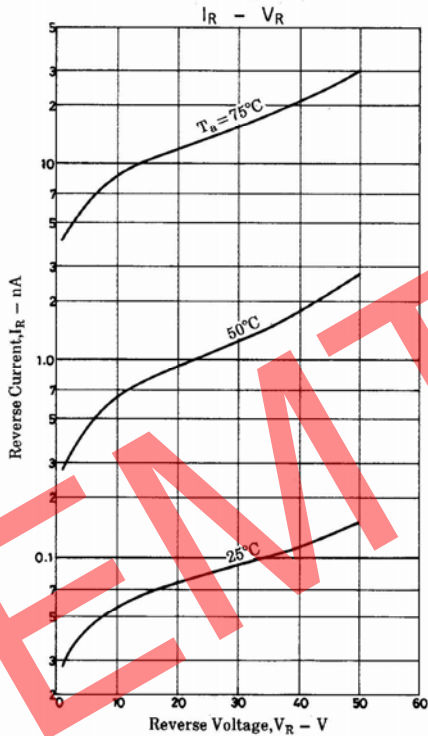
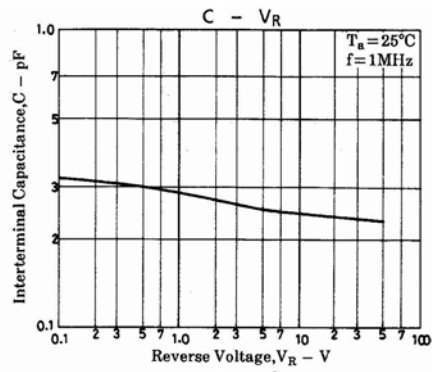
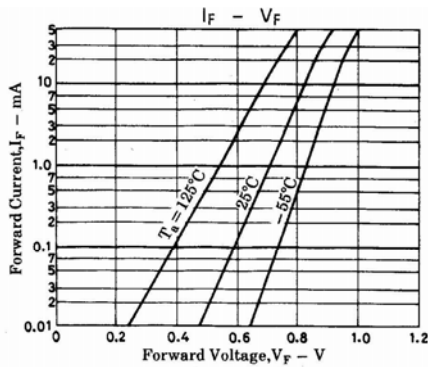
Parameter	Symbol	Min.	Max.	Unit
Reverse Voltage at $I_R = 10\ \mu\text{A}$	V_R	50	-	V
Forward Voltage at $I_F = 50\ \text{mA}$	V_F	-	1.1	V
Reverse Current at $V_R = 50\ \text{V}$	I_R	-	100	nA
Capacitance between Terminal at $V_R = 50\ \text{V}$, $f = 1\ \text{MHz}$	C_t	-	0.45	pF
Series Resistance at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



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