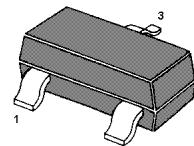
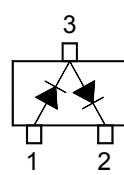


1PS14SE

Silicon Epitaxial Planar PIN Diode

Features

- Low forward resistance
- Low capacitance



Marking Code: H6

TO-236 Plastic Package

Applications

- for high frequency attenuator

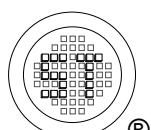
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	50	V
Continuous Forward Current	$I_{F(AV)}$	50	mA
Total Power Dissipation	P_{tot}	100	mW
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	- 55 to + 125	°C

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

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 50 \text{ mA}$	V_F	-	1	V
Reverse Current at $V_R = 50 \text{ V}$	I_R	-	100	nA
Total Capacitance at $V_R = 50 \text{ V}, f = 1 \text{ MHz}$	C_{tot}	-	0.35	pF
Forward Resistance at $I_F = 10 \text{ mA}, f = 100 \text{ MHz}$	r_f	-	7	Ω
ESD-Capability ¹⁾ at $C = 200 \text{ pF}$, Both Forward and Reverse Direction 1 pulse	-	200	-	V

¹⁾ Failure criterion: $I_R \geq 200 \text{ nA}$ at $V_R = 50 \text{ V}$



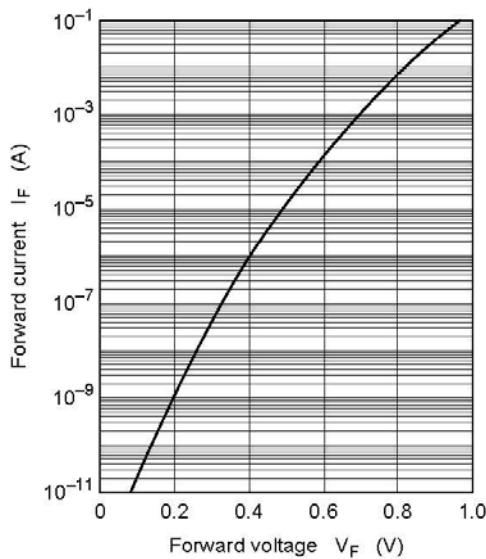


Fig.1 Forward current vs. Forward voltage

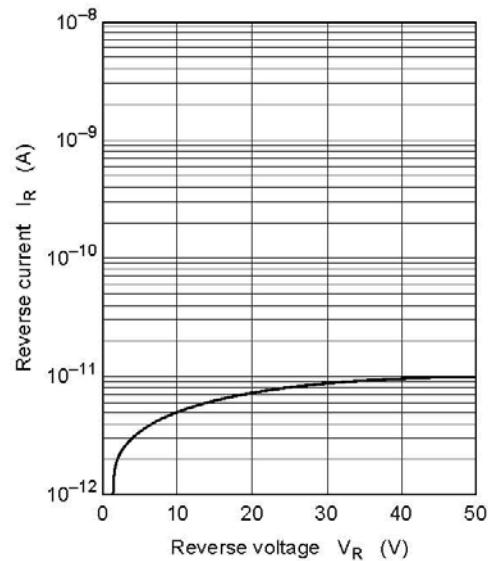


Fig.2 Reverse current vs. Reverse voltage

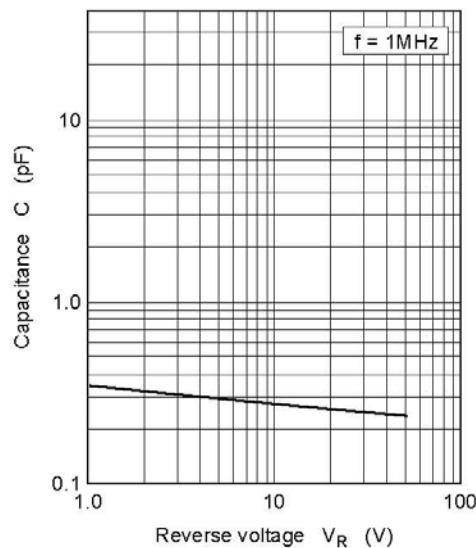


Fig.3 Capacitance vs. Reverse voltage

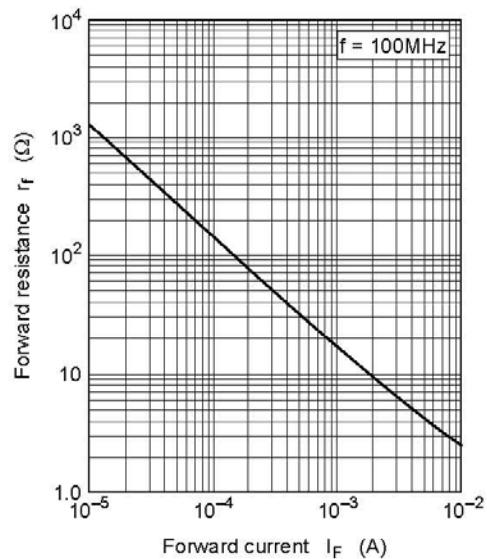


Fig.4 Forward resistance vs. Forward current

