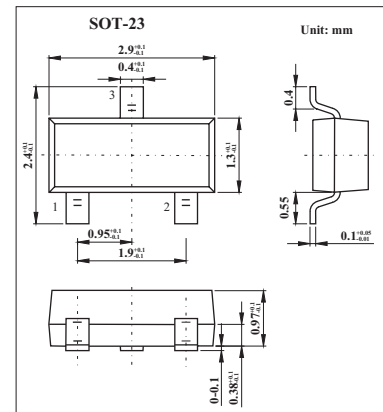


## PIN Diode for VHF, UHF, AGC Applications

## 1SV250

## ■ Features

- Small-sized package facilitates high-density mounting and permits 1SV250-applied equipment to be made smaller.
- Small interterminal capacitance ( $C=0.23\text{pF}$  typ).
- Small forward series resistance ( $r_s=4.5\ \Omega$  max).

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

Parameter	Symbol	Value	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  $T_a = 25\ ^\circ\text{C}$ 

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
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	$V_F$	$I_F = 50\ \text{mA}$		0.92	4.5	V
Interterminal Capacitance	$C$	$V_R = 50\ \text{V}, f = 1\ \text{MHz}$		0.23		pF
Series Resistance	$r_s$	$I_F = 10\ \text{mA}, f = 100\ \text{MHz}$				$\Omega$

## ■ Marking

Marking	FV