# 1SS390

## Silicon Epitaxial Planar Band Swithing Diode

### Features

- Extremely small surface mounting type
- High reliability

#### Applications

• High frequency switching



Simplified outline SOD-523 and symbol

## Absolute Maximum Ratings (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage	VR	35	V
Forward Current	IF	100	mA
Junction Temperature	TJ	125	°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 125	°C

#### Characteristics at Ta = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at I⊧ = 10 mA	VF	1	V
Reverse Current at V <sub>R</sub> = 25 V	IR	10	nA
Capacitance Between Terminals at $V_R$ = 6 V, f = 1 MHz	Ст	1.2	pF
Forward Operating Resistance at I <sub>F</sub> = 2 mA, f = 100 MHz	ľf	0.9	Ω



## **Electrical Characteristics Curves**







## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



UNIT	А	bp	С	D	Е	H <sub>E</sub>	V	Ζ
mm	0.70 0.60	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°

## **Recommended Soldering Footprint**



0.0

## Packing information

Tape Width		Pitch		Reel Size		
Раскаде	(mm)	mm	inch	mm	inch	Per Reel Packing Quantity
SOD-523	8	4 ± 0.1	0.157 ± 0.004	178	7	4,000

## **Marking information**

" K " = Part No. " III " = Cathode line Font type: Arial



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