



BAR88-02V

RF PIN Diode

Features

- Low diode capacitance
- Low diode forward resistance

Application

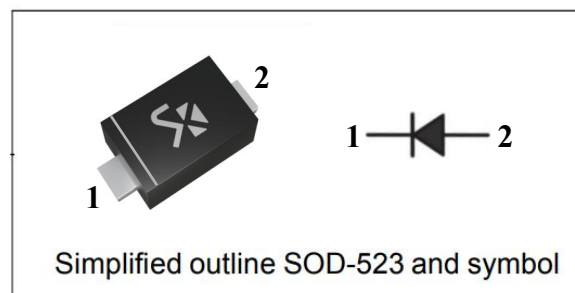
- General RF applications

Marking:U

Maximum Ratings

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



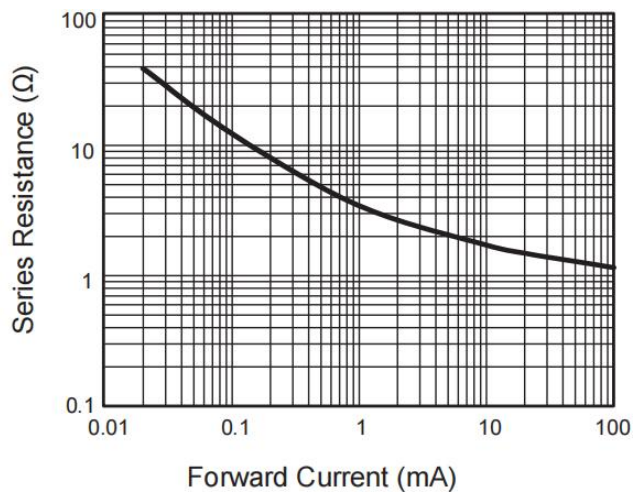
Parameter		Symbol	Value	Unit
Reverse Voltage		V_R	80	V
Forward Current		I_F	100	mA
Power Dissipation@25°C lead temperature		P_D	250	mW
Operating Temperature		T_A	-55~+150	°C
Storage Temperature		T_{STG}	-55~+125	°C
Electrostatic Discharge	Charged device Model(CDM), Class 4	ESD	1000	V
	Human Body Model(HBM), Class 2		2000	V
	Machine Model(MM), Class B		200	V

Electrical Characteristics $T_J=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse Voltage	V_R	$I_R=10\mu\text{A}$	50			V
Reverse Current	I_R	$V_R=60\text{V}$			50	nA
Forward Voltage	V_F	$I_F=10\text{mA}$		0.85		V
Diode Capacitance	C_T	$f=1\text{MHz}, V_R=0\text{V}$		0.4		pF
		$f=1\text{MHz}, V_R=1\text{V}$		0.3		
		$f=1\text{MHz}, V_R=5\text{V}$			0.25	
Forward Resistance	r_f	$f=100\text{MHz}, I_F=0.5\text{mA}$			5	Ω
		$f=100\text{MHz}, I_F=1\text{mA}$			2.5	
		$f=100\text{MHz}, I_F=10\text{mA}$		0.6		

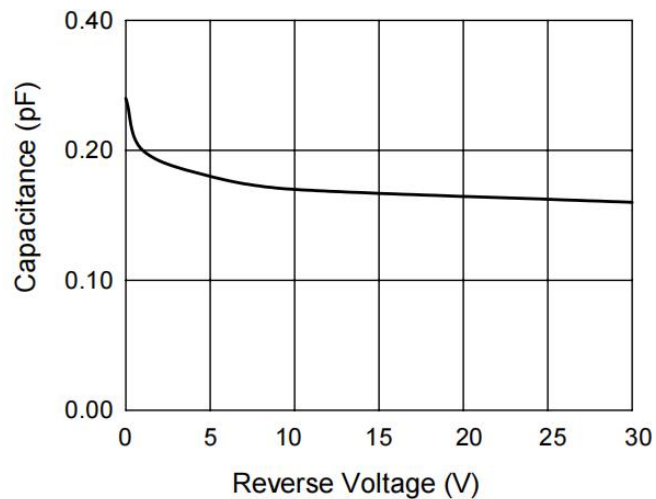


Typical Characteristics



$f = 100 \text{ MHz}$; $T_j = 25 \text{ }^{\circ}\text{C}$.

Fig.1 Forward resistance as a function of forward current; typical values.



$f = 1 \text{ MHz}$; $T_j = 25 \text{ }^{\circ}\text{C}$.

Fig.2 Diode capacitance as a function of reverse voltage; typical values.

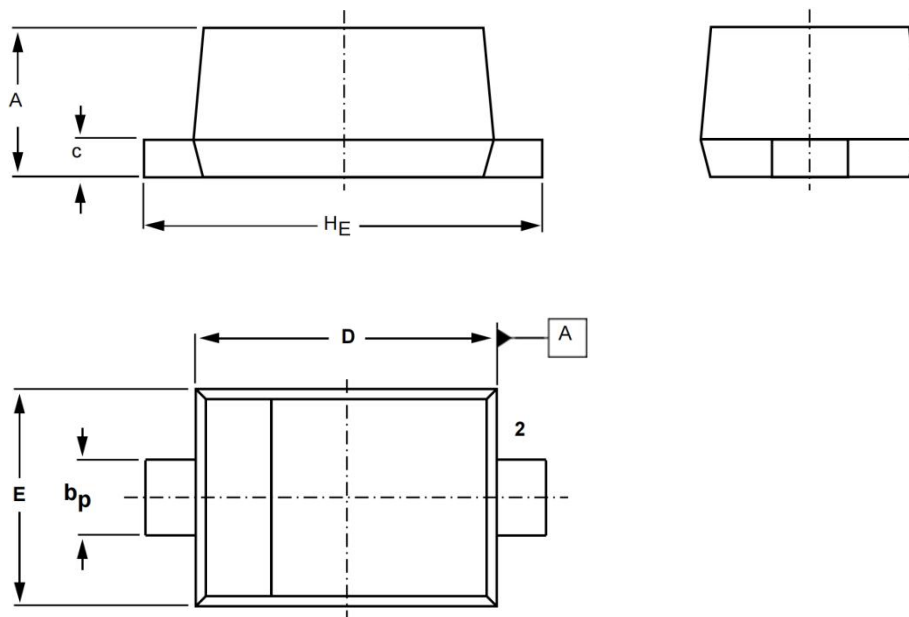


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Package Information

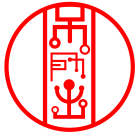
SOD-523

Dimensions in mm



DIMENSIONS (mm are the original dimensions)

UNIT	A	b _p	c	D	E	H _E	v
mm	0.7 0.5	0.35 0.25	0.2 0.1	1.3 1.1	0.9 0.7	1.7 1.5	0.15



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