



BAR65-02V

RF PIN Diode

Features

- Space saving SOD523 package with low series inductance
- Very small reverse capacitance
- Small reverse capacitance

Marking

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

Parameter	Symbol	Limit	Unit
Reverse Voltage	V_R	30	V
Forward Current	I_F	100	mA
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55~+150	$^{\circ}\text{C}$

Thermal Resistance

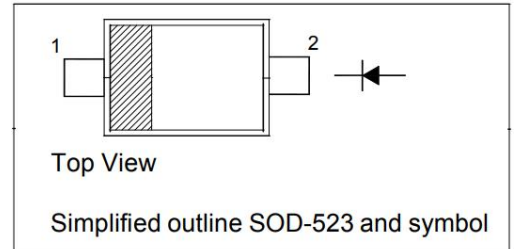
Parameter	Symbol	Limit	Unit
Junction-soldering point	R_{thJS}	100	K/W

Electrical Characteristics ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
DC Characteristics						
Reverse Voltage	V_R	$I_R=10\mu\text{A}$	30			V
Reverse Current	I_R	$V_R=20\text{V}$			20	nA
Forward Voltage	V_F	$I_F=100\text{mA}$			1.1	V
AC Characteristics						
Diode Capacitance	C_D	$f=1\text{MHz}, V_R=0\text{V}$		0.55		pF
		$f=1\text{MHz}, V_R=1\text{V}$		0.5	0.9	
		$f=1\text{MHz}, V_R=3\text{V}$		0.45	0.8	
Forward Resistance	r_f	$f=100\text{MHz}, I_F=1\text{mA}$		1		Ω
		$f=100\text{MHz}, I_F=5\text{mA}$		0.6	0.95	
		$f=100\text{MHz}, I_F=10\text{mA}$		0.52	0.9	
Charge Carrier Life Time	τ_{tr}	$I_F=10\text{mA}, I_R=6\text{mA}, I_R=3\text{mA}$		150		ns

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode





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Package Information

SOD-523

Dimensions in mm

