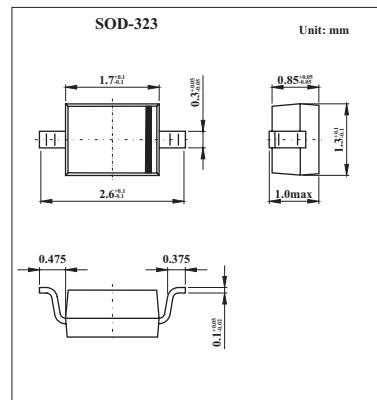


**Silicon PIN Diode****BAR64-03W****■ Features**

- High voltage current controlled RF resistor for RF attenuator and switches
- Frequency range above 1 MHz
- Low resistance and short carrier lifetime
- For frequencies up to 3 GHz

**■ Absolute Maximum Ratings Ta = 25°C**

Parameter	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	200	V
Forward current	I <sub>F</sub>	100	mA
Total Power dissipation Ts ≤ 25 °C	P <sub>tot</sub>	250	mW
Junction temperature	T <sub>j</sub>	150	°C
Operating temperature range	T <sub>op</sub>	-55 to +150 °C	°C
Storage temperature range	T <sub>stg</sub>	-55 to +150 °C	°C
Junction - soldering point <sup>1)</sup>	R <sub>thJA</sub>	≤ 450	K/W

Note:

1. Package mounted on alumina 15mm x 16.7mm x 0.7mm

**■ Electrical Characteristics Ta = 25°C**

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Breakdown voltage	V <sub>(BR)</sub>	I <sub>R</sub> = 5 μ A	200			V
Forward voltage	V <sub>F</sub>	V <sub>R</sub> = 20 V, f = 1 MHz			1.1	V
Diode capacitance	C <sub>T</sub>	V <sub>R</sub> = 0 V, f = 100 MHz		0.23	0.35	pF
Forward resistance	rf	I <sub>F</sub> = 1 mA, f = 100 MHz		12.5	20	Ω
		I <sub>F</sub> = 10 mA, f = 100 MHz		2.1	3.8	
		I <sub>F</sub> = 100 mA, f = 100 MHz		0.85	1.35	
Charge carrier life time	τ <sub>rr</sub>	I <sub>F</sub> = 10 mA, I <sub>R</sub> = 6 mA, I <sub>R</sub> = 3mA		1.55		μ s
Series inductance	L <sub>s</sub>			2		nH

**■ Marking**

Marking	2
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