

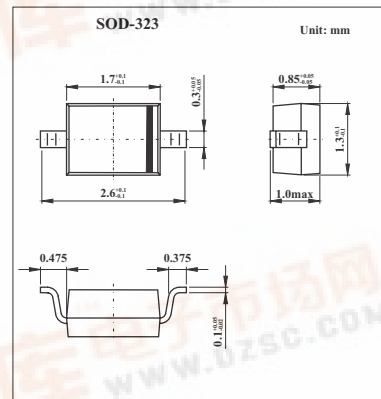
SMD Type

Diodes

Silicon RF Switching Diode  
BAR65-03W

Features

- Low loss, low capacitance PIN-diode
- Band switch for TV-tuners
- Series diode for mobile communications transmit-receive switch



Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Value	Unit
Diode reverse voltage	V <sub>R</sub>	30	V
Forward current	I <sub>F</sub>	100	mA
Operating temperature range	T <sub>op</sub>	-55 to +125	°C
Storage temperature range	T <sub>stg</sub>	-55 to +150	°C

Electrical Characteristics Ta = 25°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 20 V, T <sub>A</sub> = 25°C			20	nA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 100 mA		0.93	1	V
Diode capacitance	C <sub>T</sub>	V <sub>R</sub> = 1 V, f = 1 MHz		0.6	0.9	pF
		V <sub>R</sub> = 3 V, f = 1 MHz		0.57	0.8	
Forward resistance	r <sub>f</sub>	I <sub>F</sub> = 5 mA, f = 100 MHz		0.65	0.95	Ω
		I <sub>F</sub> = 10 mA, f = 100 MHz		0.56	0.9	
Series inductance	L <sub>s</sub>			1.8		nH

Marking

Marking	blue M
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