

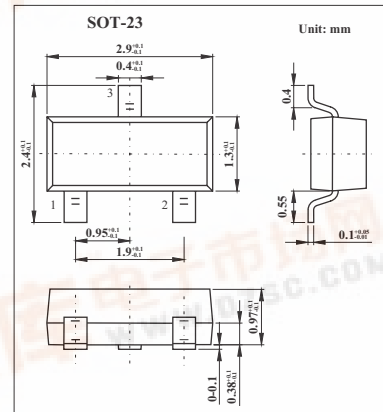
SMD Type Diodes

Silicon PIN Diode

BA885

Features

- Current-controlled RF resistor for switching and attenuating applications
- Frequency range 1 MHz... 2 GHz
- Especially useful as antenna switch in TV-sat tuners



Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	50	V
Forward Current	I <sub>F</sub>	50	mA
Operating temperature range	T <sub>op</sub>	-55 to +125	°C
Storage temperature range	T <sub>stg</sub>	-55 to +150	°C
Junction ambient <sup>1)</sup>	R <sub>thJA</sub>	≤ 450	K/W

Note:

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

Electrical Characteristics Ta = 25°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 50 mA			1.1	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 30 V			50	nA
Diode capacitance	C <sub>T</sub>	V <sub>R</sub> = 10 V, f = 1 MHz		0.28	0.6	pF
		V <sub>R</sub> = 0 V, f = 100 MHz		0.23	0.4	
Forward resistance	r <sub>f</sub>	f = 100 MHz		22	40	Ω
		I <sub>F</sub> = 1.5 mA		5	7	
		I <sub>F</sub> = 10 mA				
Zero bias conductance	g <sub>p</sub>	V <sub>R</sub> = 0 V, f = 100 MHz		70		μ S
Series inductance	L <sub>s</sub>			2		nH

Marking

Marking	PA
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