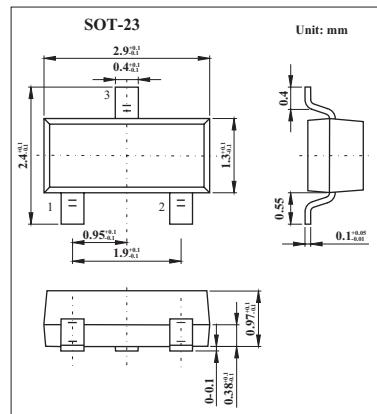


Silicon PIN diode

BAP64-04

■ Features

- High voltage, current controlled
- RF resistor for RF attenuators and switches
- Low diode capacitance
- Low diode forward resistance
- Low series inductance
- For applications up to 3 GHz.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Min	Max	Unit
continuous reverse voltage	VR		175	V
continuous forward current	IF		100	mA
total power dissipation Ts = 90 °C	Ptot		250	mW
storage temperature	Tstg	-65	+150	°C
junction temperature	Tj	-65	+150	°C
thermal resistance from junction to soldering point	Rth j-s		220	K/W

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
forward voltage	VF	IF = 50 mA		0.95	1.1	V
reverse leakage current	VR	VR = 175 V		10		µ A
		VR = 20 V		1		
diode capacitance	Cd	VR = 0; f = 1 MHz	0.52			pF
		VR = 1 V; f = 1 MHz	0.37	0.5		pF
		VR = 20 V; f = 1 MHz	0.23	0.35		pF
diode forward resistance	rd	IF = 0.5 mA; f = 100 MHz; note 1	20	40		Ω
		IF = 1 mA; f = 100 MHz; note 1	10	20		
		IF = 10 mA; f = 100 MHz; note 1	2	3.8		
		IF = 100 mA; f = 100 MHz; note 1	0.7	1.35		
charge carrier life time	τ L	when switched from IF = 10 mA to IR = 6mA; RL = 100 Ω ,measured at IR = 3 mA		1.55		µ S
series inductance	Ls			1.4		nH

Note

1. Guaranteed on AQL basis: inspection level S4, AQL 1.0.

■ Marking

Marking	4Kp
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