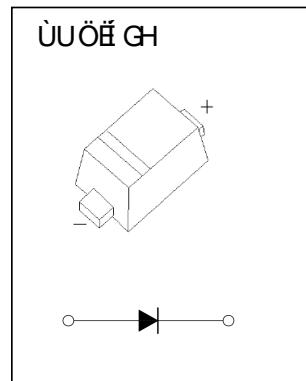


**BAP51-02** GENERAL PURPOSE PIN DIODES**FEATURES**

- Low diode capacitance
- Low diode forward resistance

**MARKING: A5****Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C**

Parameter	Symbol	Limit			Unit
Continuous Reverse Voltage	V <sub>R</sub>	60			V
Continuous Forward Current	I <sub>F</sub>	50			mA
Power Dissipation (Ta=90°C)	P <sub>d</sub>	715			mW
Power Dissipation	P <sub>d</sub>	150			mW
Thermal Resistance from Junction to Soldering Point	R <sub>θJS</sub>	85			°C/W
Junction Temperature	T <sub>j</sub>	-55~+150			°C
Storage Temperature	T <sub>STG</sub>	-55~+150			°C

**Electrical Ratings @Ta=25°C**

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Continuous reverse voltage	V <sub>R</sub>	50			V	I <sub>R</sub> =10µA
Forward voltage	V <sub>F</sub>			1.1	V	I <sub>F</sub> =50mA
Reverse current	I <sub>R</sub>			100	nA	V <sub>R</sub> =50V
Diode capacitance	C <sub>d1</sub>		0.4*		pF	V <sub>R</sub> =0V,f=1MHz
	C <sub>d2</sub>			0.55	pF	V <sub>R</sub> =1V,f=1MHz
	C <sub>d3</sub>			0.35	pF	V <sub>R</sub> =5V,f=1MHz
Diode forward resistance	r <sub>D</sub>			9	Ω	I <sub>F</sub> =0.5mA , f=100MHz;note1
	r <sub>D</sub>			6.5	Ω	I <sub>F</sub> =1mA , f=100MHz;note1
	r <sub>D</sub>			2.5	Ω	I <sub>F</sub> =10mA , f=100MHz;note1

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