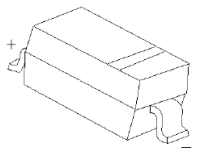
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOD-323 Plastic-Encapsulate Diodes

BAP50-03 GENERAL PURPOSE PIN DIODE

SOD-323



FEATURES

- Low diode capacitance
- Low diode forward resistance

MARKING: A81

Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

Parameter	Symbol	Limit	Unit
Continuous Reverse Voltage	V_R	50	V
Continuous Forward Current	I_F	50	mA
Power Dissipation (Ta=90℃)	Pd	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	85	℃/W
Junction Temperature	T_j	150	℃
Storage Temperature	T_{STG}	-55~+150	℃

Electrical Ratings @Ta=25℃

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Continuous reverse voltage	V_R	50			V	I_R=10μA
Forward voltage	V_F			1.1	V	I_F=50mA
Reverse current	I_R			100	nA	V_R=50V
Diode capacitance	C_{d1A}			0.91	pF	V_R=0V,f=1MHz
	C_{d1B}			1.11	pF	V_R=0V,f=1MHz
	C_{d2}			0.55	pF	V_R=1V,f=1MHz
	C_{d3}			0.35	pF	V_R=5V,f=1MHz
Diode forward resistance	r_D			40	Ω	I_F=0.5mA , f=100MHz; note1
	r_D			25	Ω	I_F=1mA , f=100MHz;note1
	r_D			5	Ω	I_F=10mA , f=100MHz;note1

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

Typical Characteristics

BAP50-03