

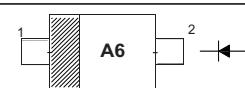
BAS316WS Silicon Epitaxial Planar Switching Diode

Applications

- High-speed switching

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "A6"
Simplified outline SOD-323 and symbol

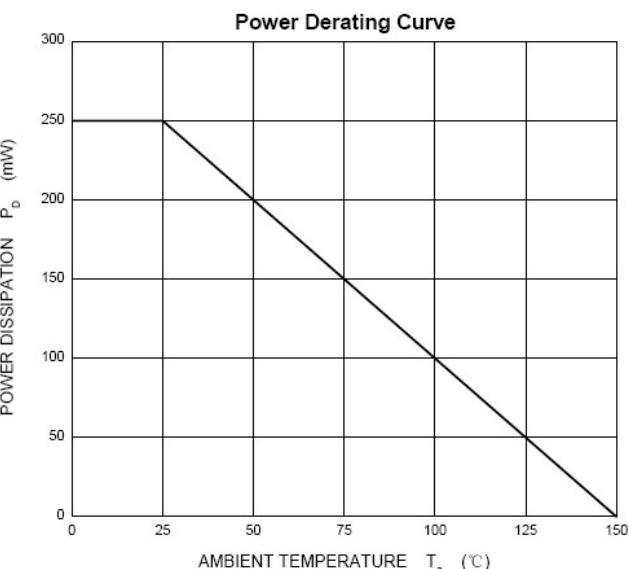
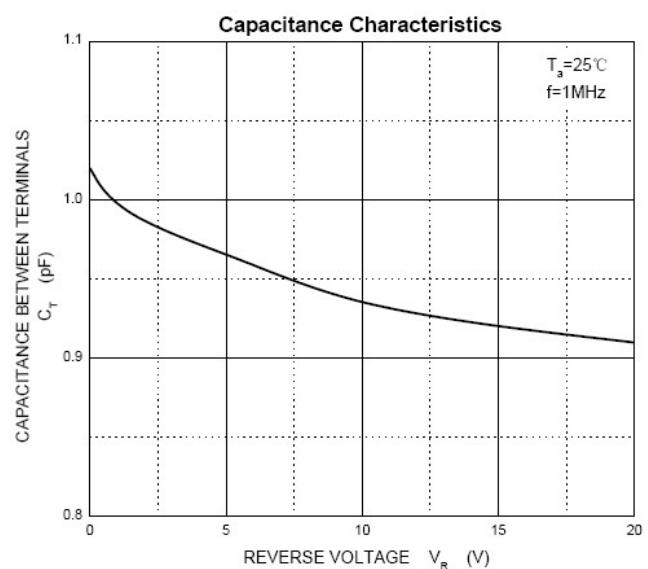
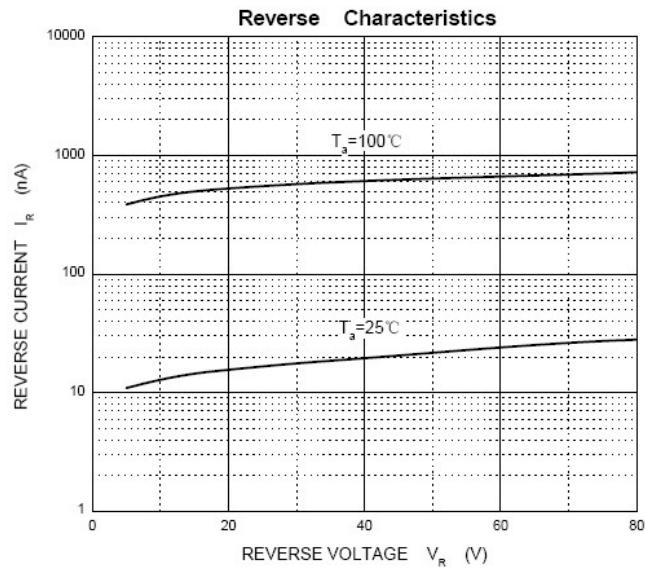
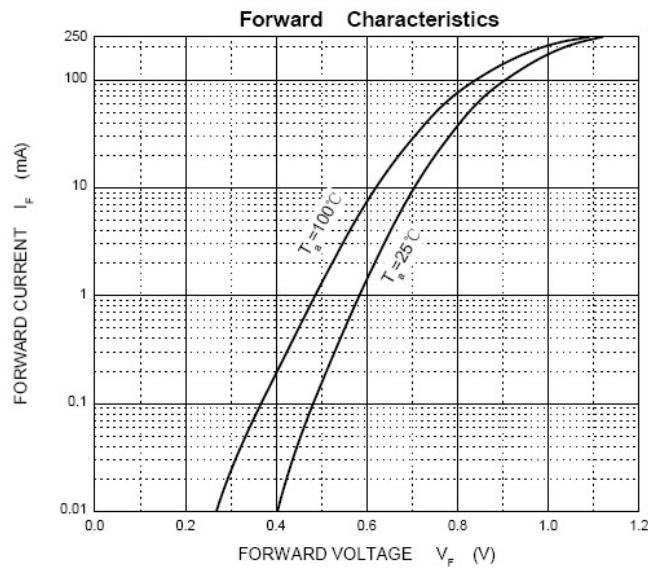
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Reverse Voltage	V_R	100	V
Continuous Forward Current	I_F	250	mA
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current at $t_p=8.3\text{ms}, T_A=25^\circ\text{C}$	I_{FSM}	2	A
Total Power Dissipation	P_{tot}	250	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 150 \text{ mA}$	V_F	0.715 0.855 1 1.25	V
Reverse Current at $V_R = 25 \text{ V}$ at $V_R = 75 \text{ V}$	I_R	30 1	nA μA
Diode Capacitance at $V_R = 0 \text{ V}, f = 1 \text{ MHz}$	C_{tot}	1.5	pF
Reverse Recovery Time at $I_F = I_R = 10 \text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$	t_{rr}	4	ns

Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323