

Descriptions

This is Silicon Diode in a SOD-323 Plastic Package.

Features

- Fast switching diodes
- HF Product

Applications

Small signal diode

Equivalent Circuit & Pinning



SOD-323

PIN1:Cathode PIN2:Anode

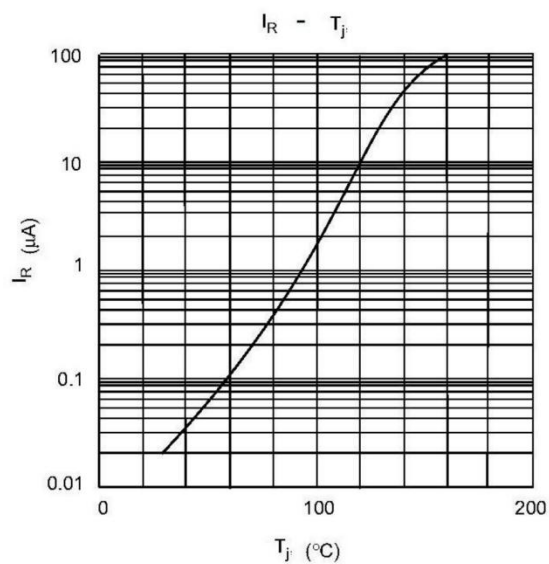
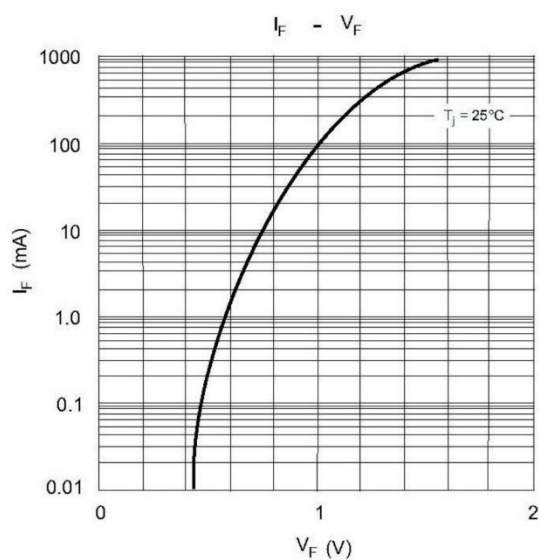
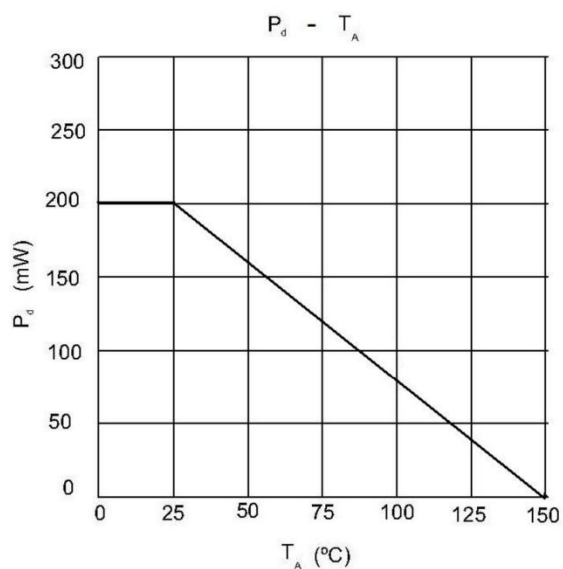
Absolute Maximum Ratings(Ta=25℃)

Parameter	Symbol	Rating			Unit
		BAV19WS	BAV20WS	BAV21WS	
Peak Repetitive Reverse Voltage	V_{RRM}	120	200	250	V
Working Peak Reverse Voltage, DC Reverse Voltage	V_{RWM} , V_R	100	150	200	V
RMS Reverse Voltage	$V_R (RMS)$	71	106	141	V
Non-Repetitive Peak Forward Current	I_{FM}	400			mA
Output Current	I_o	200			mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	t=1.0μs:2.5A t=1.0s:0.5A			A
Power Dissipation	P_d	200			mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500			℃/W
Junction and Storage Temperature Range	T_J, T_{stg}	-65℃ TO +150℃			℃

Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions		Rating		Unit
				MIN	MAX	
Forward Voltage	$V_{(BR)}$	$I_R=100\mu A$	BAV19WS	120		V
			BAV20WS	200		
			BAV21WS	250		
Peak Forward Voltage	V_{FM}	$I_F=100mA$			1.0	V
		$I_F=200mA$			1.25	
Instantaneous Reverse Current	I_{RM}	$T_J=25^{\circ}C$	$V_R=V_{RWM}$		100	nA
		$T_J=100^{\circ}C$	$V_R=V_{RWM}$		15	μA
Reverse Recovery Time	t_{rr}	$I_F=I_R=30mA$ $I_{rr}=0.1 \times I_R$	$R_i=100\Omega$		50	ns
Total Capacitance	C_T	$V_R=0$	$f=1.0MHz$		5.0	pF

Electrical Characteristic Curve



Marking Instructions



Note:
H: Company Code.
A8: Product Type.

Packaging SPEC

REEL

Package Type	Units					Dimension (unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-323	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205

Package Outline Dimensions

