

RoHS
Compliant



Features

- Low leakage current
- High reverse breakdown voltage
- Fast switching speed
- Surface mount package ideally suited for automatic insertion

Application

- Surface mount fast switching diode.

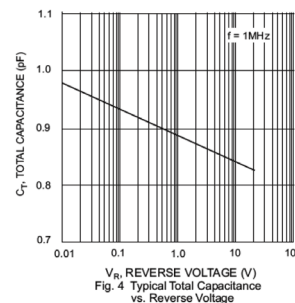
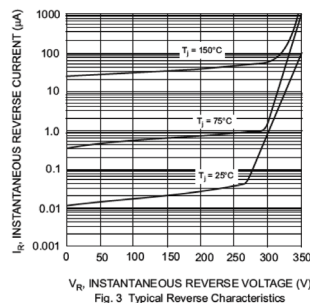
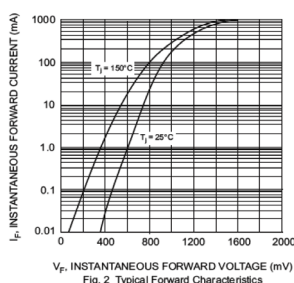
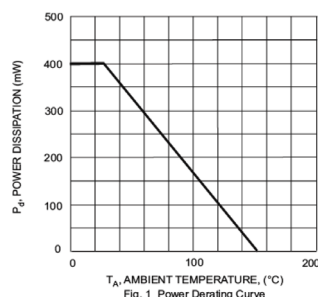
Maximum Rating @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	350	V
Working Peak Reverse Voltage DC Reverse Voltage	V _{RWM} V _R	300	V
RMS Reverse Voltage	V _{R(RMS)}	212	V
Forward Continuous Current	I _{FM}	225	mA
Repetitive Peak Forward Current	I _{FRM}	625	mA
Non-Repetitive Peak Forward Surge Current @t=1μs @t=1s	I _{FSM}	4 1	A
Power Dissipation	P _D	400	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	312	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

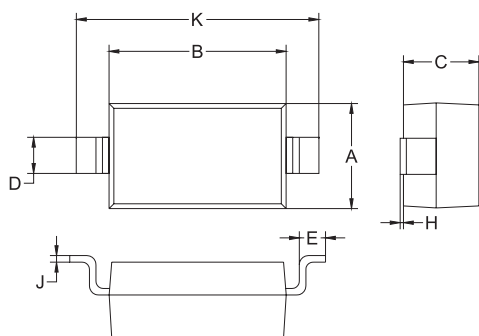
Characteristic	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Reverse Breakdown Voltage	V _{(BR)R}	350	-	-	V	I _R = 150μA
Forward Voltage	V _F		0.78 0.93 1.03	0.87 1 1.25	V	I _F = 20mA I _F = 100mA I _F = 200mA
Reverse Current	I _R		30 35	100 100	nA μA	V _R = 240V, T _J = 25°C V _R = 240V, T _J = 150°C
Total Capacitance	C _T		1	5	pF	V _R = 0V, f = 1MHz
Reverse Recovery Time	t _{rr}		-	50	ns	I _F = I _R = 30mA, I _{rr} = 0.1 × I _R , R _L = 100Ω

Typical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified



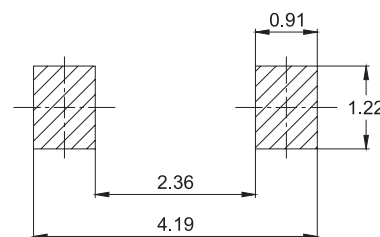
Package Outline

Plastic surface mounted package



SOD-123		
Dim.	Min.	Max.
A	1.45	1.75
B	2.55	2.85
C	1.15 Typical	
D	0.55 Typical	
E	0.25	0.45
H	0.02	0.1
J	0.1 Typical	
K	3.55	3.85

Soldering Footprint



Dimensions : Millimetres

Part Number Table

Description	Part Number
Signal Diode, Single, 350V, 225mA, 1.25V	BAV3004W-7-F

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