Surface Mount Low Leakage Diode

multicomp



Features:

- Low Leakage Current
- High Reverse Breakdown Voltage
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion



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Applications:

Surface mount fast switching diode

SOD-123

Max. Rating @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak repetitive reverse voltage	Vrrm	350	V
Working peak reverse voltage DC reverse voltage	Vrwm Vr	300	V
RMS reverse voltage	Vr(rms)	212	V
Forward continuous current	lfм	225	mA
Repetitive peak forward current	IFRM	625	mA
Non-Repetitive peak forward surge current @t=1.0us @t=1.0s	Ігѕм	4 1	A
Power dissipation	P _d	400	mW
Thermal resistance junction to ambient air	R _{eja}	312	°C/W
Operating and storage temperature range	Т _Ј ,Тsтg	-65 to +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

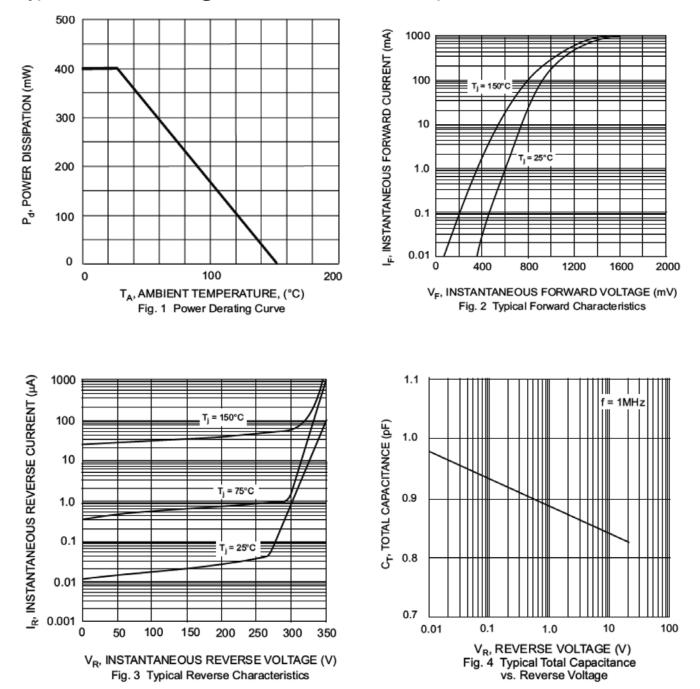
Characteristic	Symbol	Min.	Тур.	Max.	Unit	
Reverse breakdown voltage	V(br)r	350	-	-	V	I κ=150μA
Forward voltage	VF	-	0.78 0.93 1.03	0.87 1 1.25	V	IF = 20mA IF = 100mA IF = 200mA
Reverse current	lr	-	30 35	100 100	nA uA	VR = 240V, Tj=25°C VR = 240V, Tj=150°C
Total capacitance	Ст	-	1	5	pF	VR = 0V, f = 1MHz
Reverse recovery time	trr	-	-	50	ns	IF = IR = 30mA, Irr = 0.1 × IR, RL = 100Ω

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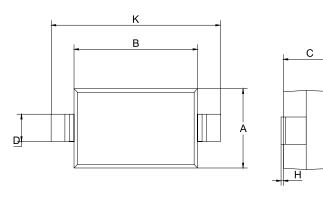
Typical Characteristics @ TA = 25°C unless otherwise specified

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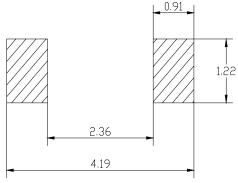
Plastic surface mounted package





SOD-123				
Dim	Min	Max		
A	1.4	1.8		
В	2.55	2.85		
С	1.15 Typical			
D	0.55 Typical			
E	0.3	0.4		
н	0.02	0.1		
J	0.1 Typical			
К	3.55	3.85		
All Dimensions in mm				

Soldering Footprint



Unit: mm

Package Information

Device	Package	Shipping
BAV3004W-7-F	SOD-123	3,000 / Tape & Reel

Part Number Table

Description	Part Number	
Surface mount low leakage diode	BAV3004W-7-F	

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