

Features

- Low Reverse Current
- Surface Mount Package Ideally Suited for Automatic Insertion
- Fast Switching Speed
- For General Purpose Switching Applications



SOD-123



Equivalent Circuit

Absolute Maximum Ratings(T_A=25℃)

Symbol	Parameter	Value	Uniat
V _{RM}	Non-Repetitive Peak Reverse Voltage	250	V
V _{RRM}	Peak Repetitive Reverse Voltage	200	V
V _{RWM}	Working Peak Reverse Voltage		
V _{R(RMS)}	RMS Reverse Voltage	141	V
I _O	Average Rectified Output Current	200	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	2.0	A
P _d	Power Dissipation	250	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	500	℃/W
T _J	Operating Junction Temperature Range	150	℃
T _{stg}	Storage Temperature Range	-55~+150	℃

Electrical Characteristics (T_A=25℃ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Max	Unit
I _R	Reverse current	V _R =200V		0.1	μA
V _F	Forward voltage	I _F =100mA		1	V
		I _F =200mA		1.25	V
C _{tot}	Total capacitance	V _R =0V, f=1MHz		5	pF
t _{rr}	Reverse recovery time	I _F =I _R =30mA, I _{rr} =0.1×I _R , R _L =100Ω		50	nS

Ordering information

Product ID	Marking	Naming rule	Pack	Qty(PCS)
BAV21W	T3	BAV21W 产品名称 product name	SOD-123	3000

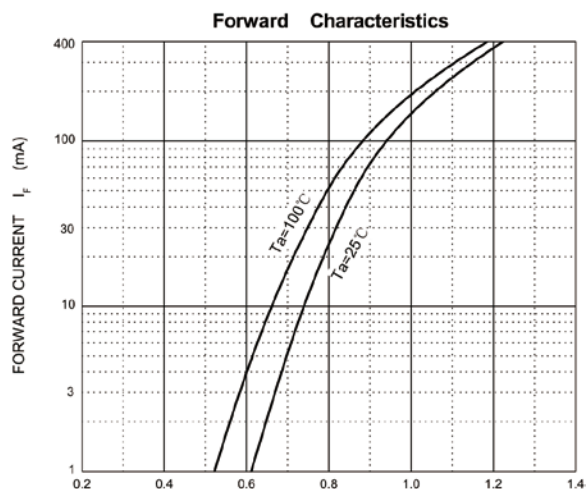


TWTLSEMI

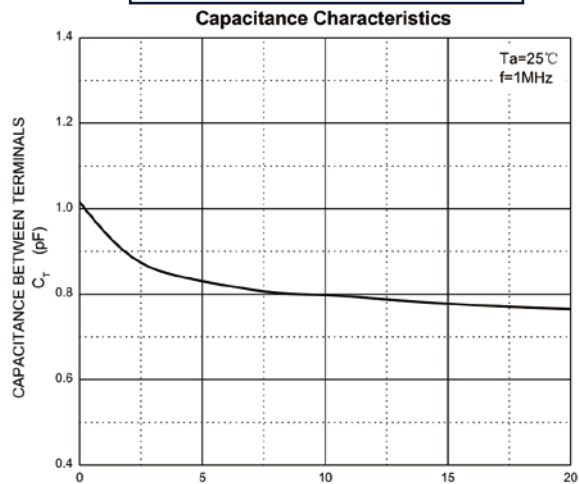
TL-BAV21W

SOD-123 SCHOKKTY BARRIER DIODE

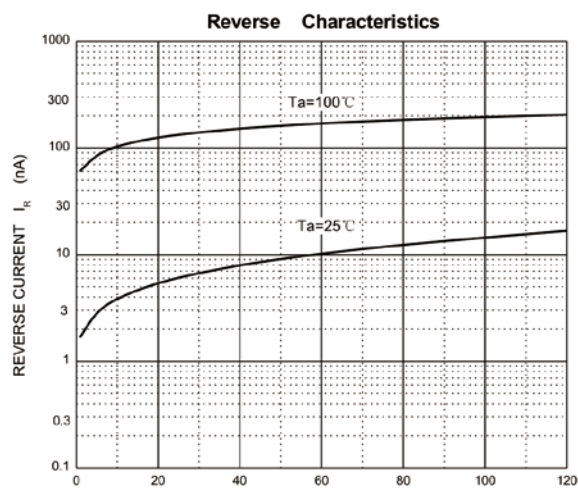
Typical Characteristics



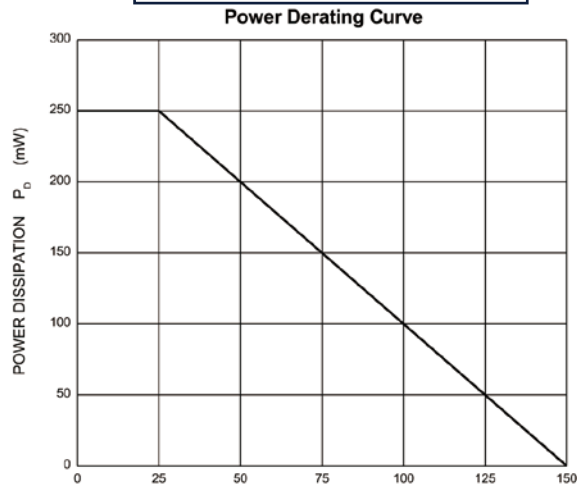
FORWARD VOLTAGE V_F (V)



REVERSE VOLTAGE V_R (V)



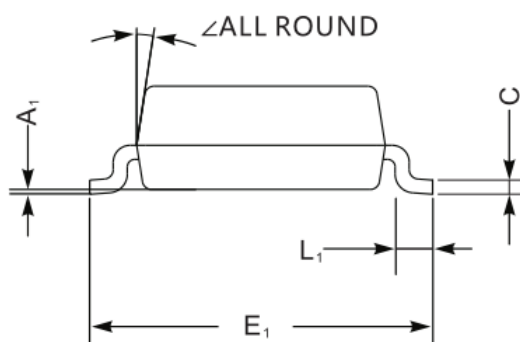
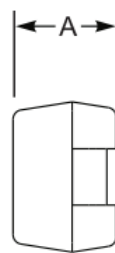
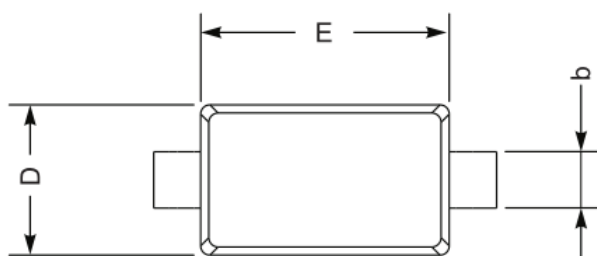
REVERSE VOLTAGE V_R (V)



AMBIENT TEMPERATURE T_a ($^\circ\text{C}$)



SOD-123 Package Outline Dimensions



Symbol	mm		mil	
	min	max	min	max
A	0.9	1.3	35	51
C	0.09	0.22	3.5	8.7
D	1.5	1.8	59	71
E	2.5	2.8	98	110
E ₁	3.6	3.9	142	154
L ₁	0.25	0.45	10	18
b	0.5	0.7	20	28
A ₁		0.2		8
∠	9°			