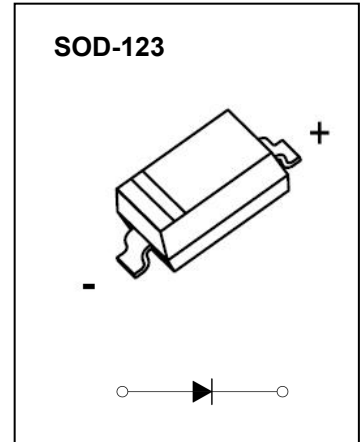


SOD-123 Plastic-Encapsulate Diodes

FEATURES

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



MARKING:

TKBAV19W	TKBAV20W	TKBAV21W
A8	T2	T3

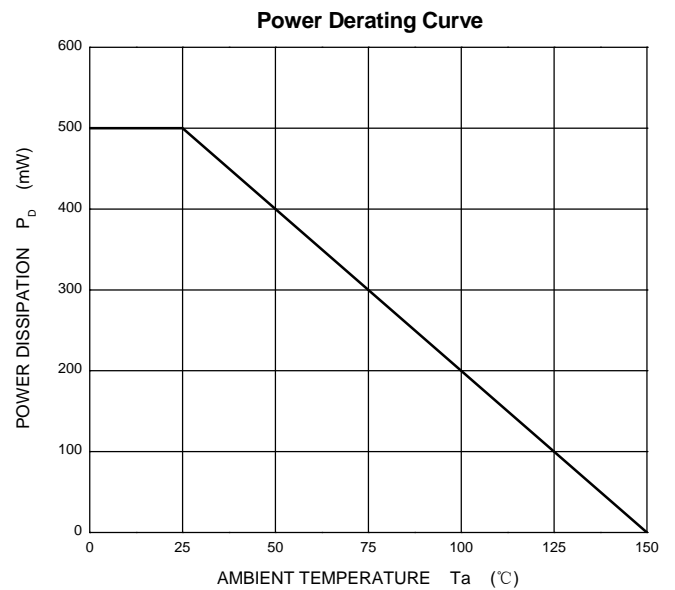
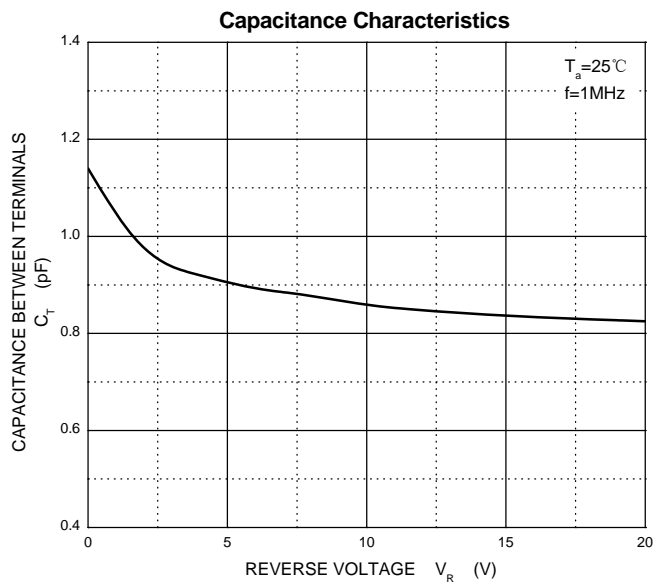
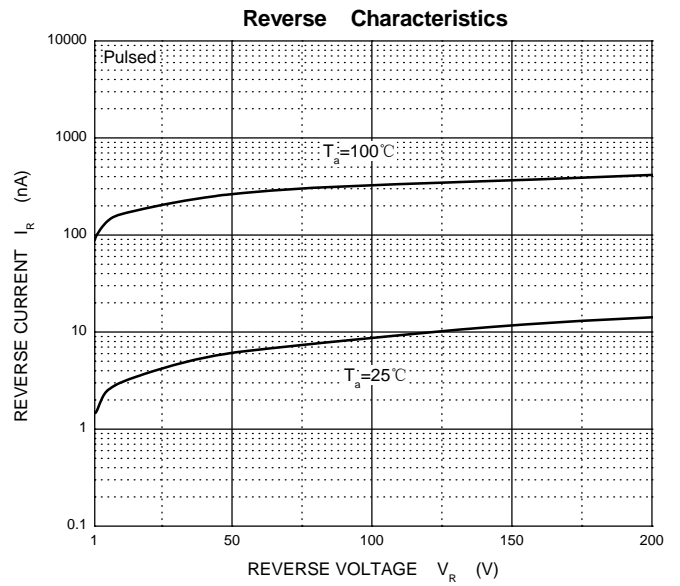
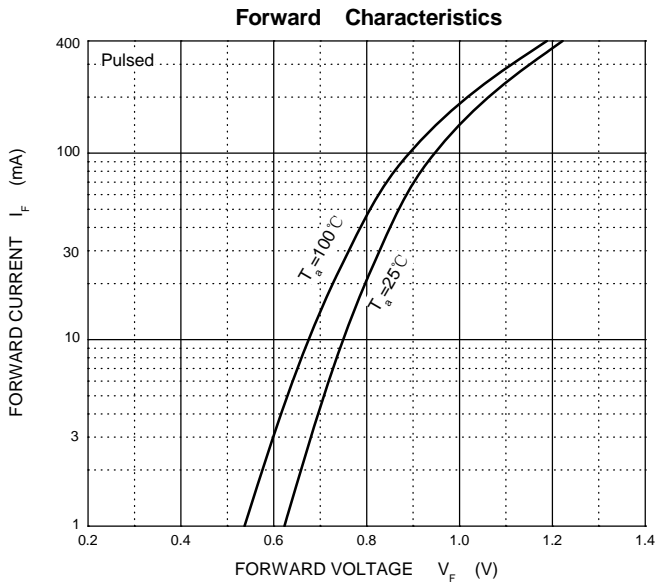
MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

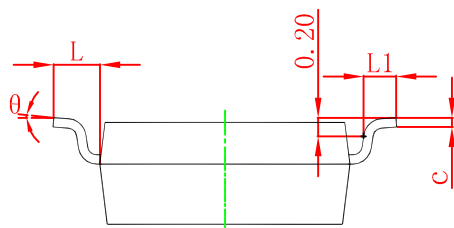
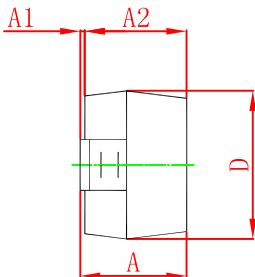
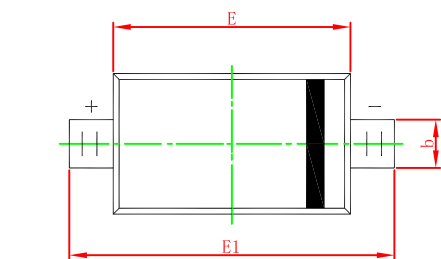
Symbol	Parameter	Value			Unit
		TKBAV19W	TKBAV20W	TKBAV21W	
V _{RM}	Non-Repetitive Peak Reverse Voltage	120	200	250	V
V _{RRM}	Peak Repetitive Reverse Voltage	100	150	200	V
V _{RWM}	Working Peak Reverse Voltage				
V _{R(RMS)}	RMS Reverse Voltage	71	106	141	V
I _O	Average Rectified Output Current	200			mA
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	2.0			A
P _D	Power Dissipation	500			mW
R _{θJA}	Thermal Resistance from Junction to Ambient	250			°C/W
T _j	Junction Temperature	150			°C
T _{stg}	Storage Temperature	-55~+150			°C

ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse current	I _R	V _R =100V			0.1	uA
		V _R =150V	TKBAV20W		0.1	
		V _R =200V	TKBAV21W		0.1	
Forward voltage	V _F	I _F =100mA			1	V
		I _F =200mA			1.25	
Total capacitance	C _{tot}	V _R =0V,f=1MHz			5	pF
Reverse recovery time	t _{rr}	I _F = I _R =30mA, I _{rr} =0.1*I _R , R _L =100Ω			50	ns

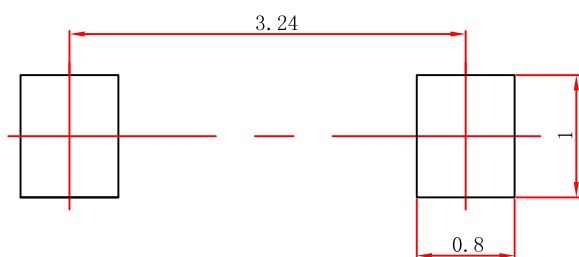
Typical Characteristics





Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°

SOD-123 Suggested Pad Layout



- Note:**
1. Controlling dimension: in millimeters.
 2. General tolerance: ± 0.05 mm.
 3. The pad layout is for reference purposes only.