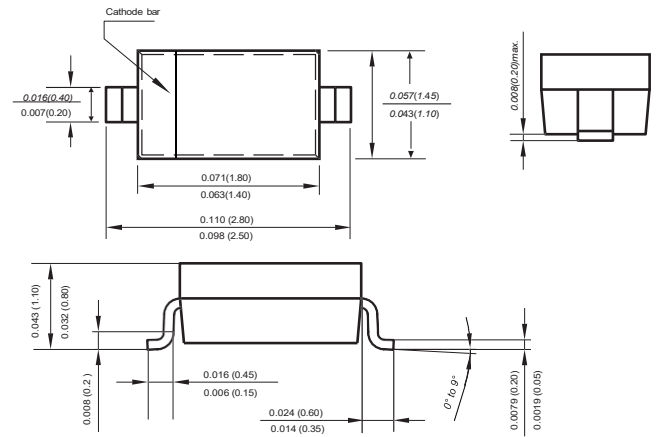


FAST SWITCHING DIODES

Features

- ◆ For surface mounted applications
- ◆ Glass Passivated Chip Junction
- ◆ Fast reverse recovery time
- ◆ Ideal for automated placement

SOD-323



Dimensions in inches and (millimeters)

Absolute Maximum Ratings at 25 °C

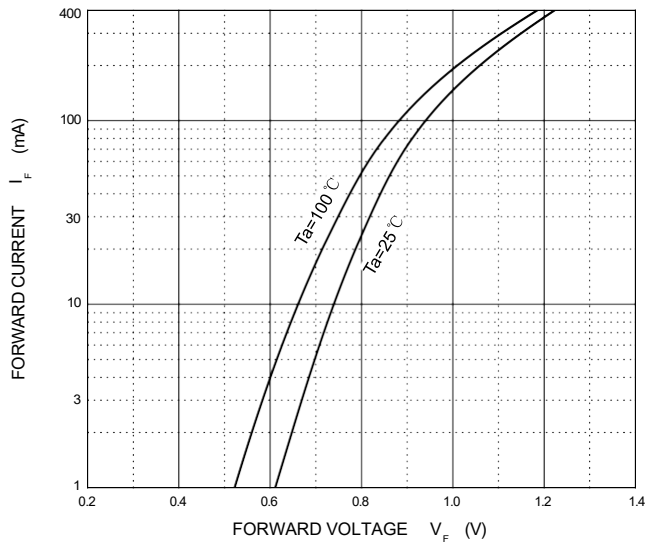
PARAMETER	SYMBOLS	BAV19WS	BAV20WS	BAV21WS	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	120	200	250	V
Maximum RMS voltage	$V_{R(RMS)}$	100	150	200	V
Continuous Forward Current	I_o	250			mA
Repetitive Peak Forward Current	I_{FM}	625			mA
Non-reptitive Peak forward surge current @=1s @=1ms @=1us	I_{FSM}	1 3 9			A
Total Power dissipation	P_{tot}	500			mW
Operating junction temperature	T_j	-55 to +150			°C
Storage temperature	T_{STG}	-55 to +150			°C

Characteristics at Ta= 25 °C

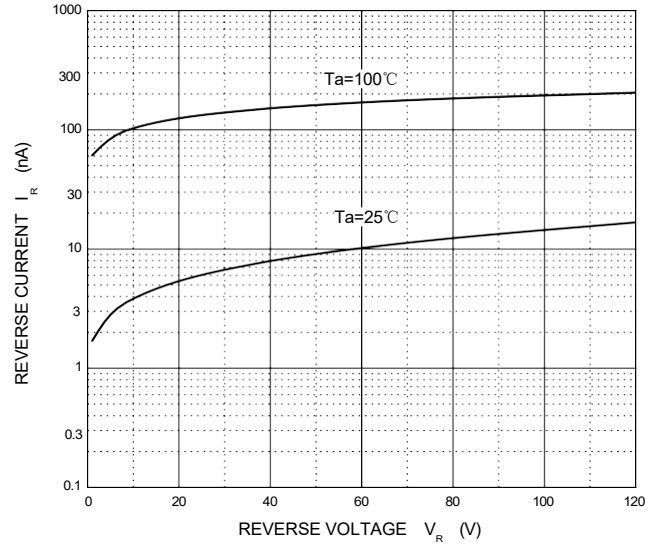
Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Reverse current	I _R	V _R =120V BAV19WS	T _a =25 °C			0.1	uA
			T _a =150 °C			100	
		V _R =200V BAV20WS	T _a =25 °C			0.1	uA
			T _a =150 °C			100	
		V _R =250V BAV21WS	T _a =25 °C			0.1	
			T _a =150 °C			100	
Forward voltage	V _F	I _F =100mA				1	V
		I _F =200mA				1.25	
Total capacitance	C _{tot}	V _R =0V,f=1MHz				5	pF
Reverse recovery time	t _{rr}	I _F =0.5A I _R =1A, I _{rr} =0.25A , R _L =100Ω				50	ns

Typical Characteristics

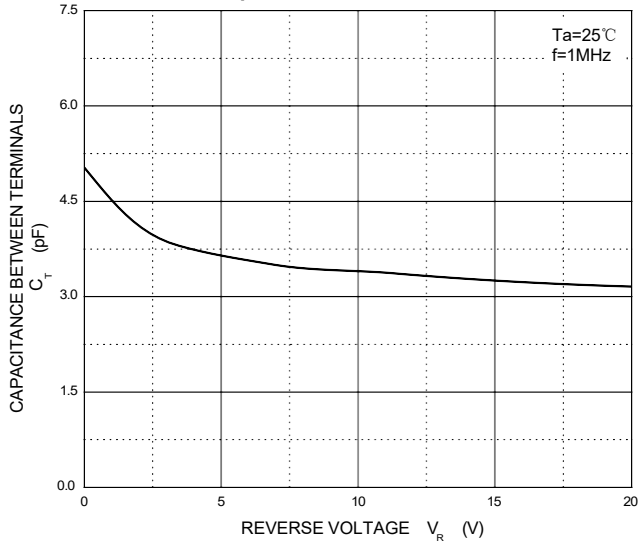
Forward Characteristics



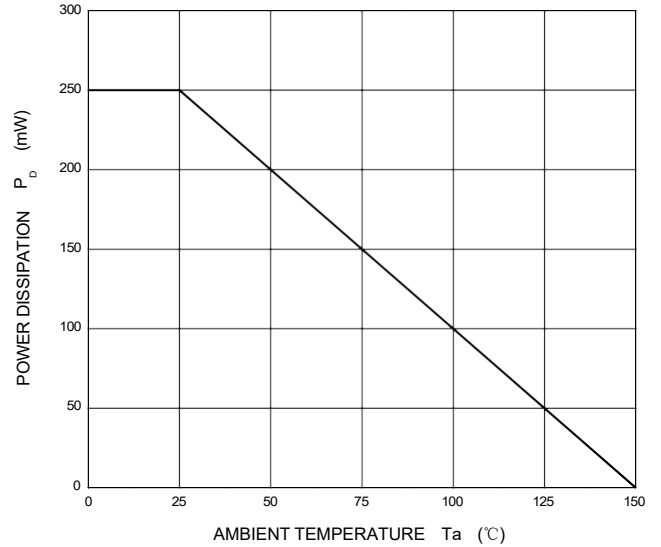
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve



The curve above is for reference only.