

400mW SOD-123 SURFACE MOUNT Small Outline Flat Lead Plastic Package High Voltage & High Conductance Fast Switching Diode

Absolute Maximum Ratings $T_A = 25$ °C unless otherwise noted

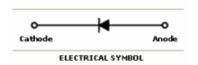
Symbol	Parameter	Parameter Value	
P _D	Power Dissipation	400	mW
T _{STG}	Storage Temperature Range	-65 to +150	°C
TJ	Operating Junction Temperature	+150	°C
V_{RRM}	Repetitive Peak Reverse Voltage	250	V
I _{F(AV)}	Average Rectified Forward Current	200	mA

These ratings are limiting values above which the serviceability of the diode may be impaired.

Green Product



SOD-123 Flat Lead



Specification Features:

- Fast Switching Diode
- General Purpose Diodes High Voltage Application Diodes
- Flat Lead SOD-123 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

DEVICE MARKING CODE:

Device Type	Device Marking				
BAV19W	H1				
BAV20W	H2				
BAV21W	H3				



Electrical Characteristics T_A = 25°C unless otherwise noted

Cumbal	Parameter		Test Condition	Limits		l lmi4
Symbol				Min	Max	Unit
В۷	Breakdown Voltage	BAV19W	I _R =100μA	120		Volts
		BAV20W		200		Volts
		BAV21W		250		Volts
I _R	Reverse Leakage Current	BAV19W	V _R =100V		100	nA
		BAV20W	V _R =150V		100	nA
		BAV21W	V _R =200V		100	nA
V _F	Forward Voltage		I _F =100mA		1.0	Volts
			I _F =200mA		1.25	Volts
T_{RR}	Reverse Recovery Time		I _F =I _R =30mA			
			$R_L=100\Omega$		50	nS
			I _{RR} =3mA			
С	Capacitance		V _R =0V, f=1M _{HZ}		5.0	pF

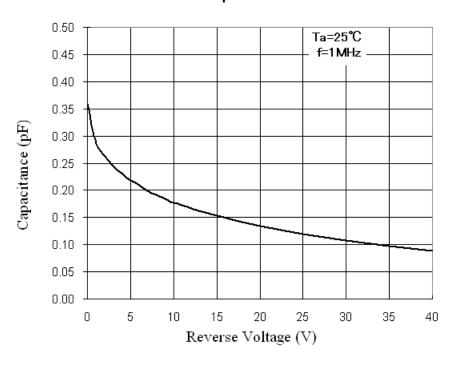
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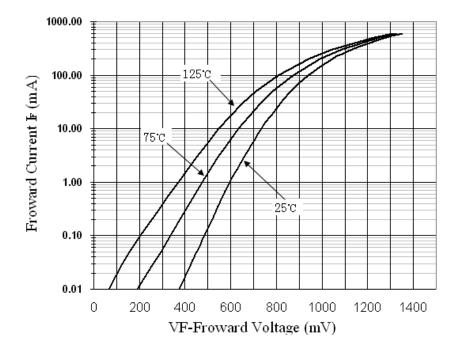


Typical Performance Characteristics

Total Capacitance



Forward Voltage vs Ambient Temperature

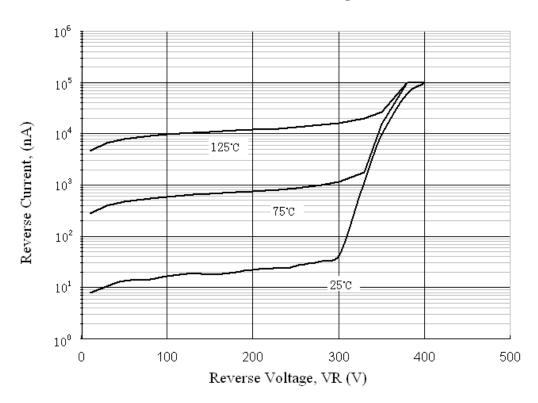


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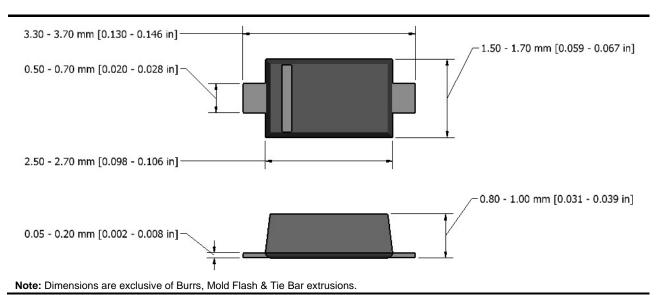
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Reverse Current vs Reverse VoltageReverse



Flat Lead SOD-123 Package Outline



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NOTICE

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damagers resulting from such improper use of sale.

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