

GOOD-ARK Electronics

500mW SOD-123 Fast Switching Diode

Features

• 50nS; Fast switching device (TRR <50nS)

• 500mW; power dissipation of 500mW

• High stability and high reliability

• Low reverse leakage

Mechanical Data

SOD-123 Small o utline plastic packagePolarity: color band denotes cathode end

Epoxy UL: 94V-0Mounting position: any





Marking: SOD-123

BAV19W: A8 BAV20W: T2 BAV21W: T3

Maximum Ratings & Thermal Characteristics (T _A =25°C unless otherwise noted)						
Parameters	Symbol	Value			11	
		BAV19W	BAV20W	BAV21W	Unit	
Reverse Voltage	V_R	120	200	250	V	
Peak Reverse Voltage	V_{RM}	100	150	250	V	
Power Dissipation	P_{D}	500			mW	
Operating junction temperature	Tj	150		$^{\circ}$		
Storage temperature range	Ts	-65-+150		$^{\circ}\!\mathbb{C}$		
Working Inverse Voltage	W _{IV}	75		V		
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	250		°C/W		
Average Rectified Current	Io	200		mA		
Non-repetitive Peak Forward Current	I _{FM}	400		mA		
Peak Forward Surge Current @tp=1ms; TA=25 ℃	I _{FSM}	2.5		А		

Valid provided that electrodes are kept at ambient temperature.

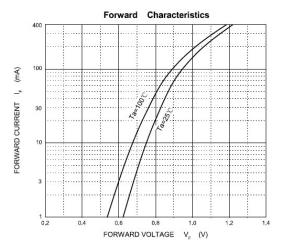
Electrical Characteristics (T _A =25°C unless otherwise noted)							
Parameter	Symbols		L	Limits			
		Test Condition	Min	Max	Unit		
Reverse Voltage	VRB	IB=100uA BAV20W BAV21W	120 200 250		V		
Reverse Leakage Current	lr	VR=100V BAV19W VR=150V BAV20W VR=200V BAV21W		0.1	uA		
	.,	IF=100mA		1.00	V		
Forward Voltage	VF	IF=200mA		1.25	·		
		IF = IR= 30mA					
Reverse Recovery Time	TRR	Irr=3mA		50	nS		
		RL=100Ω		50			
Capacitance	Сј	VR=0V, f=1MHZ		5	pF		

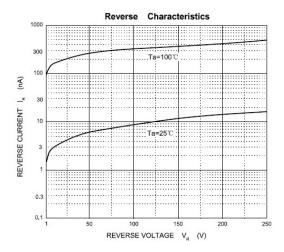
BAV19W-BAV20W-BAV21W

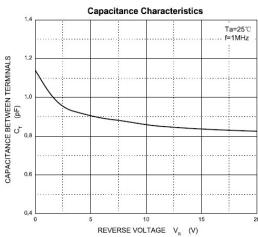
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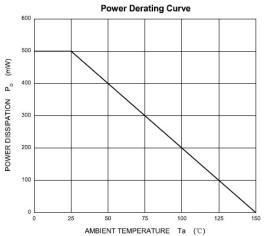
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)







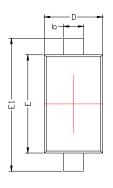


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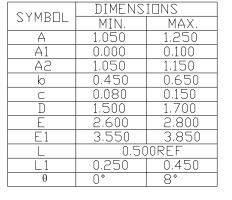
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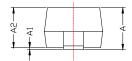
Package Outline Dimensions

millimeters









Revision History

Document Version	Date of release	Description of changes	
Rev.A	2017.03.31	First issue	

GOOD-ARK

BAV19W-BAV20W-BAV21W

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