

### **Features**

- Halogen Free
- AEC-Q101 Qualified
- · Silicon Epitaxial Planar Diodes
- · For General Purpose
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

### **Maximum Ratings**

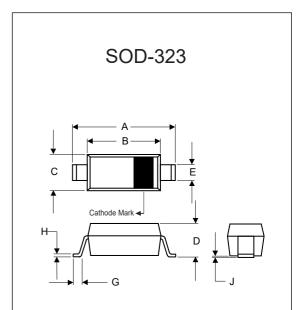
- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance:500°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Continuous Reverse Voltage
BAV19WSHE3	A8	120V	71V	100V
BAV20WSHE3	T2	200V	106V	150V
BAV21WSHE3	Т3	250V	141V	200V

Peak Forward Current	I <sub>FM</sub>	400mA	Note1
Average Rectified Output Current	I <sub>o</sub>	200mA	Note1
Peak Forward Surge Current	I <sub>FSM</sub>	2.5A 0.5A	t=1µs t=1s
Repetitive Peak Forward Curren	I <sub>FRM</sub>	625mA	f>50Hz, Ta=25°C <sup>(1)</sup>
Power Dissipation	P <sub>tot</sub>	250mW	Ta=25°C <sup>(1)</sup>

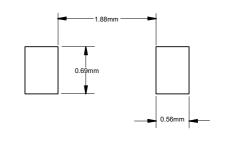
Notes: 1. Valid Provided that Terminals are Kept at Ambient Temperature

# 250mW Small Signal Diodes 120 to 250 Volts



DIMENSIONS					
DIM INCHES		HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
Е	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

#### Suggested Solder Pad Layout





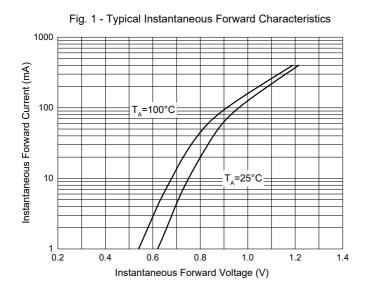
## Electrical Characteristics @ 25°C (Unless Otherwise Specified)

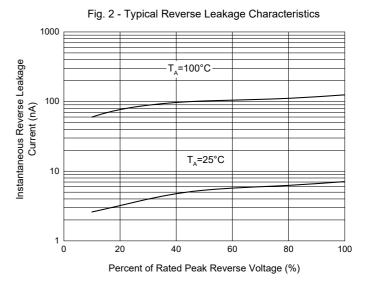
Paramo	eter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage		V <sub>F</sub>	I <sub>F</sub> =100mA			1	V
			I <sub>F</sub> =200mA			1.25	V
Dynamic Forwar	d Resistance	r <sub>f</sub>	I <sub>F</sub> =10mA		5		Ω
Reverse Current	BAV19WSHE3	I <sub>R</sub>	V <sub>R</sub> =100V			100	nA
	BAV20WSHE3		V <sub>R</sub> =150V			100	nA
	BAV21WSHE3		V <sub>R</sub> =200V			100	nA
	BAV19WSHE3		V <sub>R</sub> =100V, T <sub>J</sub> =100°C			15	μΑ
	BAV20WSHE3		V <sub>R</sub> =150V, T <sub>J</sub> =100°C			15	μΑ
	BAV21WSHE3		V <sub>R</sub> =200V, T <sub>J</sub> =100°C			15	μA
Junction Cap	oacitance	$C_J$	$V_R = 0V, f = 1MHz$		1.5		pF
Reverse Reco	overy Time	t <sub>rr</sub>	$I_F = I_R = 30 \text{mA},$ $I_{rr} = 0.1 ^*I_R, R_L = 100 \Omega$			50	ns

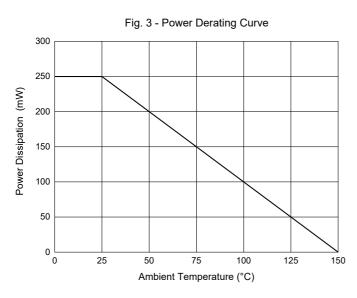
<sup>\*</sup> Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



### **Curve Characteristics**









## **Ordering Information**

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		

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