

Features

- · Silicon Epitaxial Planar Diodes
- · For General Purpose
- · This Diode is Also Available in Other Case
- Halogen Free. "Green" Device (Note 1)
- · 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

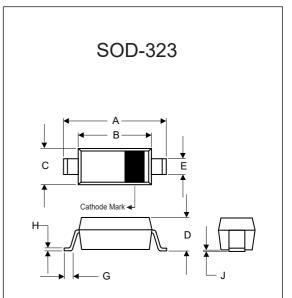
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Continuous Reverse Voltage
BAV19WS	A8	120V	71V	100V
BAV20WS	T2	200V	106V	150V
BAV21WS	Т3	250V	141V	200V

Peak Forward Current	I _{FM}	400mA	Note2
Average Rectified Output Current	I _o	200mA	Note2
Peak Forward Surge Current	I _{FSM}	9.0A 3.0A 1.7A 0.5A	t=1µs t=100µs t=10ms t=1s
Repetitive Peak Forward Curren	I _{FRM}	625mA	f>50Hz, Ta=25°C ⁽²⁾
Power Dissipation	P _{tot}	250mW	Ta=25°C ⁽²⁾

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

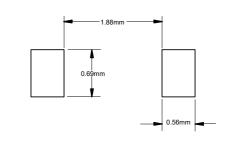
2. Valid Provided that Terminals are Kept at Ambient Temperature

250mW Small Signal Diodes 120 to 250 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	IN MAX MIN MA		MAX	INOTE	
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





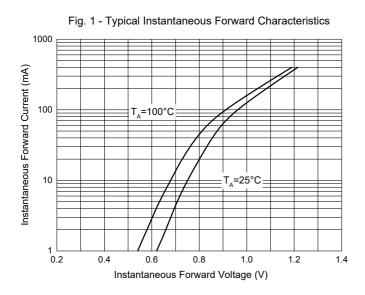
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

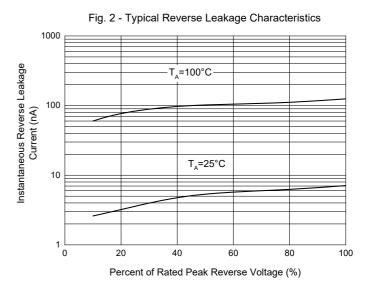
Paramete	er	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage		V _F	I _F =100mA			1	V
			I _F =200mA			1.25	V
Dynamic Forward F	Resistance	r _f	I _F =10mA		5		Ω
Reverse Current BAV2 BAV2 BAV2	BAV19WS	I _R	V _R =100V			100	nA
	BAV20WS		V _R =150V			100	nA
	BAV21WS		V _R =200V			100	nA
	BAV19WS		V _R =100V, T _J =100°C			15	μA
	BAV20WS		V _R =150V, T _J =100°C			15	μΑ
	BAV21WS		V _R =200V, T _J =100°C			15	μA
Junction Capac	citance	C _J	V _R = 0V, f = 1MHz		1.5		pF
Reverse Recovery Time		t _{rr}	$I_F = I_R = 30 \text{mA},$ $I_{rr} = 0.1 ^*I_R, R_L = 100 \Omega$			50	ns

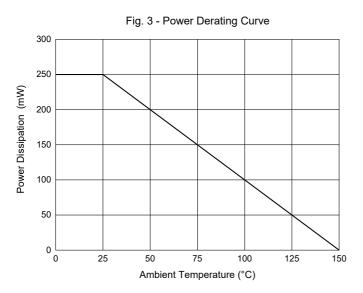
^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

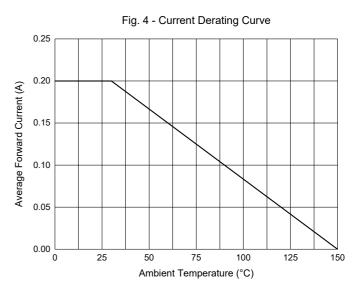


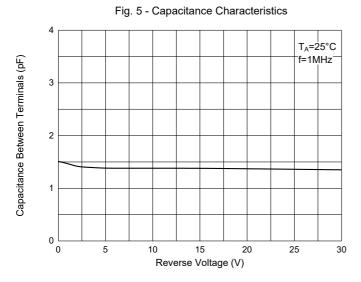
Curve Characteristics













Ordering Information

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

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