

Features

- · Silicon Epitaxial Planar Diodes
- 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

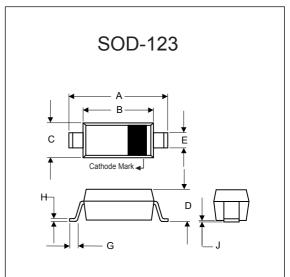
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance:305°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Continuous Reverse Voltage
BAV19W	A8	120V	71V	100V
BAV20W	T2	200V	106V	150V
BAV21W	Т3	250V	141V	200V

			•
Forward DC Current	I _F	250mA	T _A =25°C
Rectified Current (Average) Half Wave Rectification with Resist	I _{F(AV)}	200mA	T _A =25°C
Repetitive Peak Forward Current	I _{FRM}	625mA	f>50Hz,T _A =25°C
Peak Forward Surge Current	I _{FSM}	1.0A	t<1s, T _J =25°C
Power Dissipation	P _{tot}	410mW	T _A =25°C

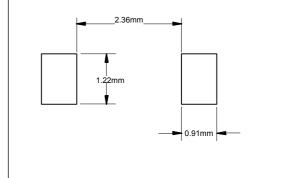
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

410mW Small Signal Diodes 120 to 250 Volts



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.140	0.152	3.55	3.85		
В	0.100	0.112	2.55	2.85		
С	0.055	0.071	1.40	1.80		
D		0.053		1.35		
E	0.018	0.026	0.45	0.65		
G	0.006		0.15			
Н		0.010		0.25		
J		0.006		0.15		

Suggested Solder Pad Layout





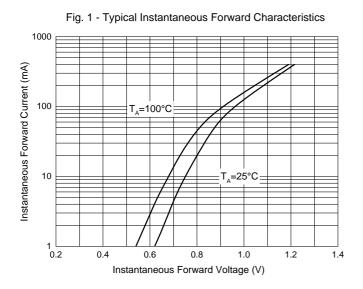
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

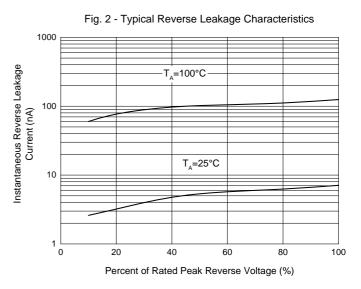
Parameter		Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage		V _F	I _F =100mA			1	V
			I _F =200mA			1.25	V
Dynamic Forward R	esistance	r _f	I _F =10mA		5		Ω
	BAV19W		V _R =100V			100	nA
Reverse Current	BAV20W		V _R =150V			100	nA
	BAV21W		V _R =200V			100	nA
	BAV19W		V _R =100V, T _J =100°C			15	μΑ
	BAV20W		V _R =150V, T _J =100°C			15	μΑ
BAV21W		V _R =200V, T _J =100°C			15	μA	
Junction Capaci	tance	C_{J}	V _R = 0V, f = 1MHz		1.5		pF
Reverse Recover	y Time	t _{rr}	$I_F = I_R = 30 \text{mA},$ $I_{rr} = 0.1 ^*I_R, R_L = 100 \Omega$			50	ns

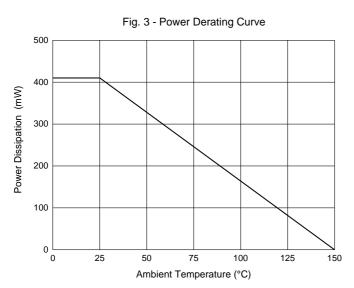
^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

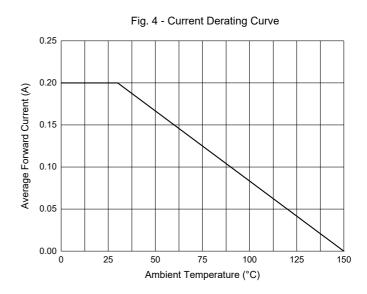


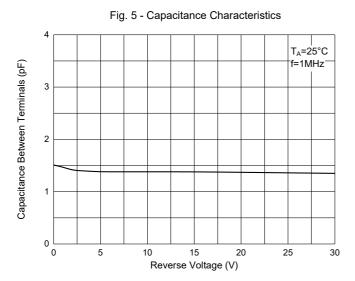
Curve Characteristics













Ordering Information

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

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