

Features

- Low Leakage Current
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

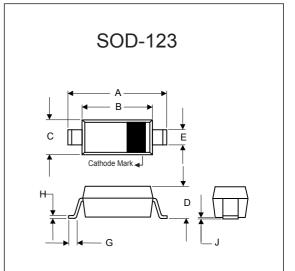
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 286°C/W Junction to Ambient

MCC Part Number	Device Marking		
BAV116W	XX		

Parameter	Symbol	Value
Non-Repetitive Peak Reverse Voltage	V_{RM}	130V
DC Reverse Voltage	V _R	130V
RMS Reverse Voltage	V _{R(RMS)}	92V
Forward Continuous Current	I _{FM}	500mA
Average Forward Current	I _{F(AV)}	215mA
Peak Forward Surge Current (t=8.3ms)	I _{FSM}	1A
Power Dissipation	P _D	350mW

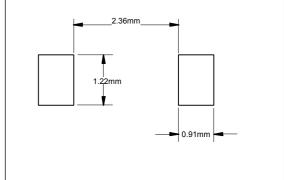
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

350mW SWITCHING DIODE 130 Volts



DIMENSIONS					
DIM INCH		HES MM		NOTE	
DIIVI	MIN MAX MIN		MIN	MAX	NOTE
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





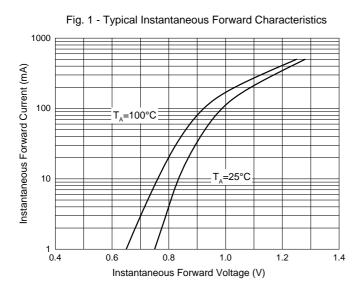
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

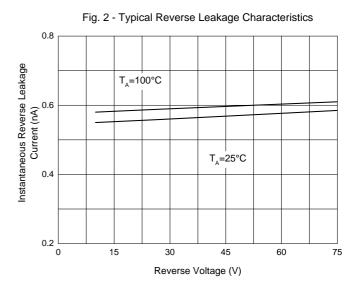
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =100μA	130			V
Forward Voltage V _F		I _F =1mA			0.9	V
	I _F =10mA			1	V	
	V _F	I _F =50mA			1.1	V
		I _F =150mA			1.25	V
Reverse Current	I _R	V _R =75V			5	nA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			2	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1\times I_R, R_L=100\Omega$			3	μs

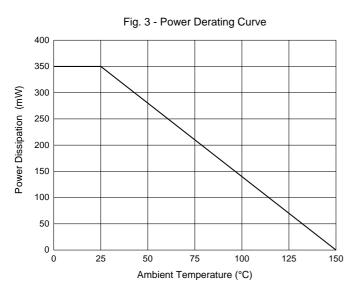
^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



Curve Characteristics









Ordering Information

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

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