

## **Features**

- Low Leakage Current
- · Fast Switching Speed
- · High Reverse Breakdown Voltage
- · 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 +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

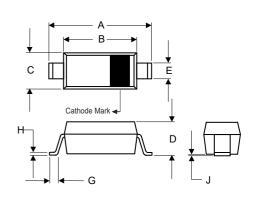
MCC Part Number	Device Marking			
BAV3004WS	4P			

Parameter	Symbol	Value	
DC Reverse Voltage	V <sub>R</sub>	300V	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	350V	
RMS Reverse Voltage	V <sub>R(RMS)</sub>	210V	
Forward Continuous Current	I <sub>FM</sub>	225mA	
Repetitive Peak Forward Current	I <sub>FRM</sub>	625mA	
Peak Forward Surge Current (t=1s)	ı	1A	
(t=1µs)	I <sub>FSM</sub>	4A	
Power Dissipation	P <sub>D</sub>	200mW	

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

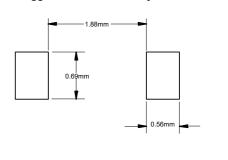
# 200mW Low Leakage Diodes





DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
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	
E	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



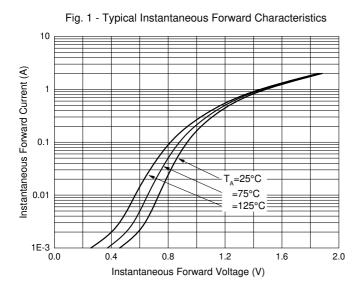


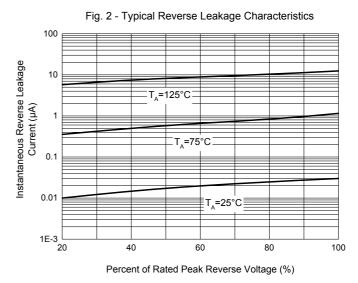
# Electrical Characteristics @ 25°C (Unless Otherwise Specified)

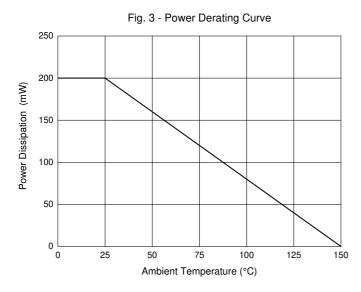
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>R</sub> =150μA	350			V
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA			0.87	V
		I <sub>F</sub> =100mA			1	V
		I <sub>F</sub> =200mA			1.25	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =240V			100	nA
		V <sub>R</sub> =240V, T <sub>J</sub> =150°C			100	μΑ
Junction Capacitance	CJ	$V_R = 0V$ , $f = 1MHz$			5	pF
Reverse Recovery Time	t <sub>rr</sub>	$I_F=I_R=30\text{mA},$ $I_{rr}=0.1\times I_R, R_L=100\Omega$			50	ns



# **Curve Characteristics**









# **Ordering Information**

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

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