

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: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 833°C/W Junction to Ambient

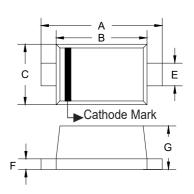
MCC Part Number	Device Marking		
BAV3004X	4P		

Parameter	Symbol	Value	
DC Reverse Voltage	V_R	300V	
Peak Repetitive Reverse Voltage	V_{RRM}	350V	
RMS Reverse Voltage	V _{R(RMS)}	210V	
Forward Continuous Current	I_{FM}	225mA	
Repetitive Peak Forward Current	I _{FRM}	625mA	
Peak Forward Surge Current (t=1s)	ı	1A	
(t=1µs)	I _{FSM}	4A	
Power Dissipation	P _D	150mW	

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

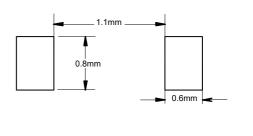
150mW Low Leakage Diodes





DIMENSIONS						
DIM	INC	INCHES M		M	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.059	0.067	1.50	1.70		
В	0.043	0.051	1.10	1.30		
С	0.030	0.033	0.75	0.85		
E	0.010	0.014	0.25	0.35		
F	0.003	0.008	0.08	0.20		
G	0.020	0.026	0.50	0.65		

Suggested Solder Pad Layout





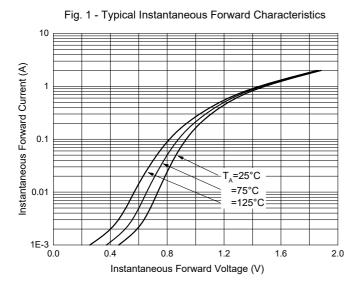
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

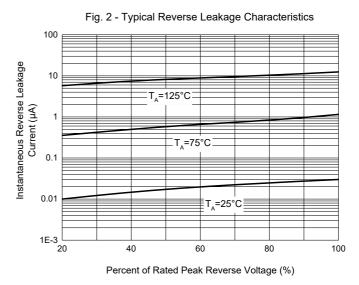
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	I _R =150μA	350			V
		I _F =20mA		0.78	0.87	V
Forward Voltage	V _F	I _F =100mA		0.93	1	V
		I _F =200mA		1.03	1.25	V
Reverse Current I _R		V _R =240V		30	100	nA
	V _R =240V, T _J =150°C		35	100	μA	
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$		1	5.1	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 30 \text{mA},$ $I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$			50	ns

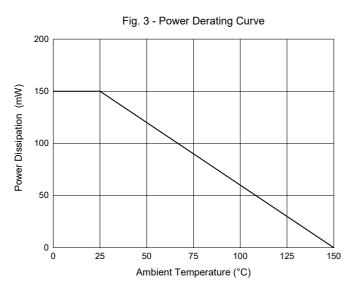
^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



Curve Characteristics







Rev.3-5-05042022 3/4 MCCSEMI.COM



Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 8Kpcs/Reel		

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