

- Low Current Leakage
- Low Cost
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

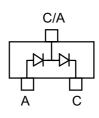
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

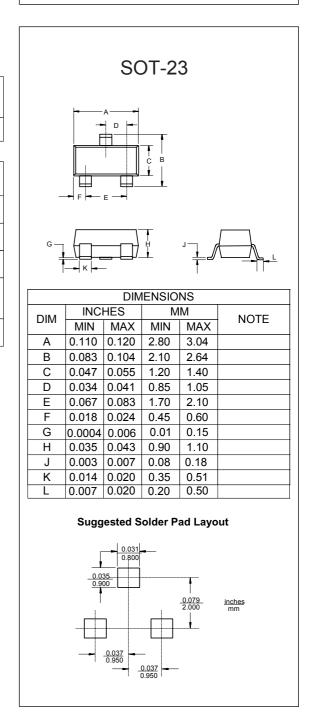
MCC Part Number	Device Marking	
BAV99	A7 / JG	

Parameter	Symbol	Value	
Reverse Voltage	V _R	100V	
Average Forward Current	I _{F(AV)}	215mA	
Repetitive Peak Forward Current	I _{FRM}	500mA	
Peak Forward Surge Current (t=1µs)	I	4A	
(t=1s)	FSM	1A	
Power Dissipation	P _D	350mW	

Internal Structure



350mW Dual Series Switching Diode





Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	I _R =100μΑ	100			V
Forward Voltage	V _F	I _F =1mA			0.715	V
		I _F =10mA			0.855	V
		I _F =50mA			1	V
		I _F =150mA			1.25	V
Reverse Current I _R	V _R =75V			2.5	μA	
	I _R	V _R =75V, T _J =150°C			50	μA
		V _R =25V, T _J =150°C			30	μA
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		2		pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10mA,$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$			4	ns

Electrical Characteristics @ 25°C (Unless Otherwise Specified)



Curve Characteristics

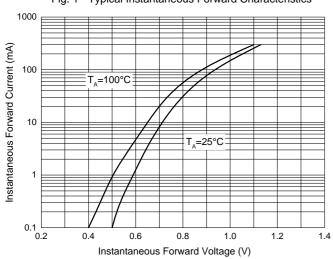
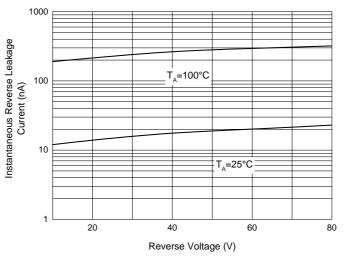
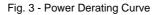
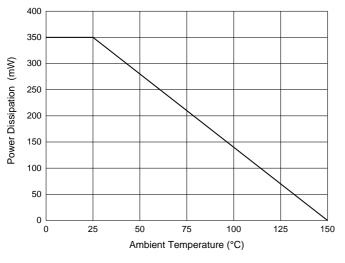


Fig. 1 - Typical Instantaneous Forward Characteristics

Fig. 2 - Typical Reverse Leakage Characteristics









Ordering Information

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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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