

Features

- High Conductance
- Fast Switching Speed
- 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)
- AEC-Q101Qualified

Maximum Ratings

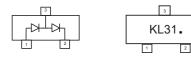
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note2):625°C/W Junction to Ambient

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	Reverse Voltage V _R
BAV23SWTHE3	250V	141V	200V

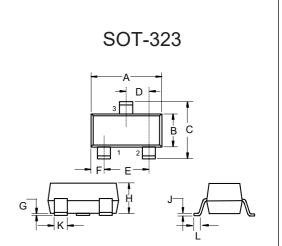
Working Peak Reverse Voltage	V _{RWM}	250V	
Repetitive Peak Forward Current	I _{FRM}	625mA	
Forward Continuous Current	I _{FM}	225mA	T _A =25°C
Non-Repetitive Peak Forward Surge Current	I _{FSM}	1.7A	@ t = 10ms
Power Dissipation	P _D	200mW	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds. Note: 2. Part mounted on FR-4 board with recommended pad layout.

Internal Structure and Marking Code

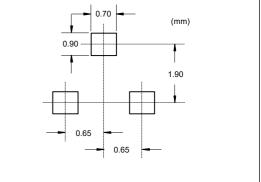






DIMENSIONS					
DIM	INCHES		MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
А	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
E	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
Breakdown Voltage	V _{BR}	Ι _R =100μΑ	250			V	
Forward Voltage	V _F	I _F =100.0mA			1.00	V	
		I _F =200.0mA			1.25		
Peak Reverse voltage	I _R	V _R =250V			100	nA	
Junction Capacitance	CJ	V _R =0.0V,f=1.0MHz		2.0		pF	
Reverse Recovery Time	t _{rr}	I _F =30mA, I _R =30mA I _{rr} =0.1*I _R , R _L =100Ω			50.0	ns	



Curve Characteristics

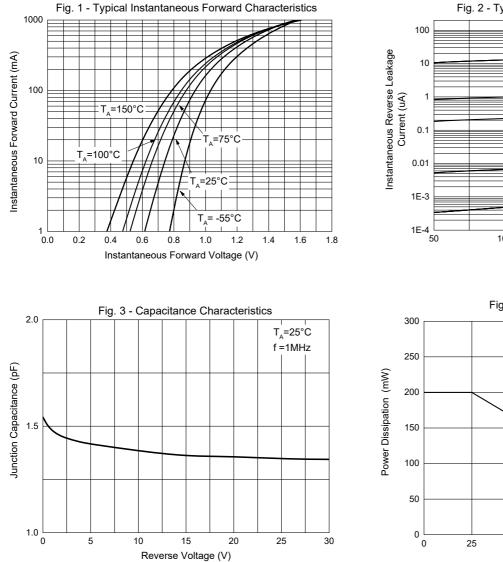


Fig. 2 - Typical Reverse Leakage Characteristics

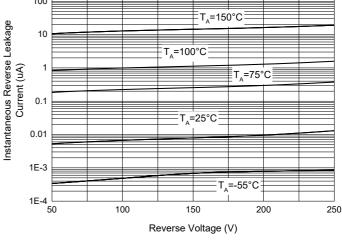
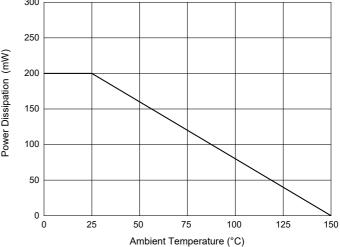


Fig. 4- Power Derating Curve





Ordering Information

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

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