

## Features

- Ultra-Small Surface Mount Package
- High Conductance
- For General Purpose Switching Applications
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

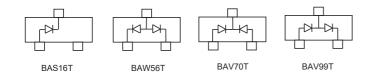
MCC Part Number	Device Marking	Peak Repetitive Reverse Voltage V <sub>RRM</sub>			
BAS16T	A2	85V			
BAW56T	JD	85V			
BAV70T	JJ	85V			
BAV99T	JE	85V			
Continuous Forward Current	I <sub>F</sub>	75mA			
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	4.0A 1.0A 0.5A	@ t=1.0us @ t=1.0ms @ t=1.0s		
Power Dissipation	P <sub>D</sub>	150mW			

## Electrical Characteristics @ 25°C Unless Otherwise Specified

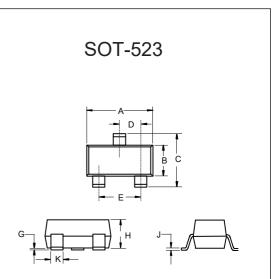
Maximum Forward Voltage	V <sub>F</sub>	0.715V 0.855V 1.000V 1.250V	I <sub>F</sub> =1.0mA I <sub>F</sub> =10.0mA I <sub>F</sub> =50.0mA I <sub>F</sub> =150.0mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	2.5µA 0.03µA	V <sub>R</sub> =75V V <sub>R</sub> =20V
Typical Junction Capacitance	CJ	1.5pF	V <sub>R</sub> =0.0V,f=1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	4.0ns	I <sub>F</sub> =10mA, I <sub>R</sub> =10mA I <sub>rr</sub> =0.1*I <sub>R</sub> , R <sub>c</sub> =100Ω

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

## **Internal Structure**

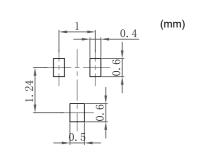


# 150mW 85Volt Switching Diode



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
А	0.059	0.067	1.50	1.70		
В	0.030	0.033	0.75	0.85		
С	0.057	0.069	1.45	1.75		
D	0.020 1	Vominal	0.50 N	ominal		
Е	0.035	0.043	0.90	1.10		
G	0.000	0.004	0.00	0.10		
Н	0.024	0.031	0.60	0.80		
J	0.004	0.008	0.10	0.20		
К	0.006	0.014	0.15	0.35		

#### Suggested Solder Pad Layout





## **Curve Characteristics**

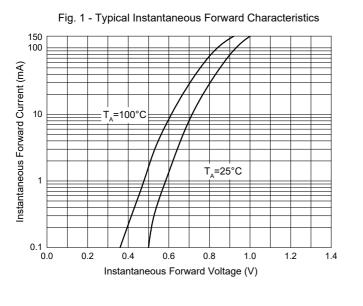
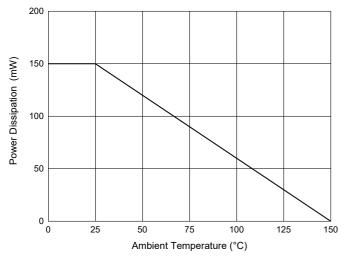


Fig. 3 - Power Derating Curve



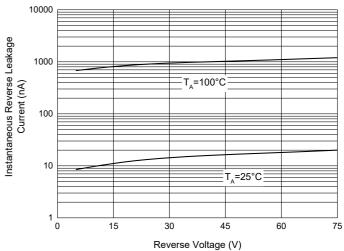


Fig. 2 - Typical Reverse Leakage Characteristics



## **Ordering Information**

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

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