



Micro Commercial Components

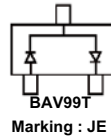
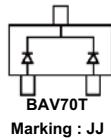
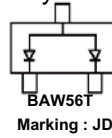
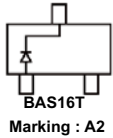


Micro Commercial Components  
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**BAS16T**  
**BAW56T**  
**BAV70T**  
**BAV99T**

## Features

- Halogen free available upon request by adding suffix "-HF"
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

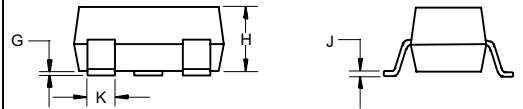
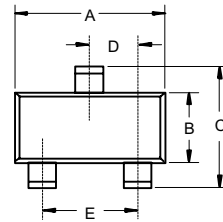


**150mW 85Volt  
 Switching Diode**

## Maximum Ratings

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

**SOT-523**



## Electrical Characteristics @ 25°C Unless Otherwise Specified

Peak Repetitive Reverse Voltage	$V_{RRM}$	85V	
Continuous Forward Current	$I_F$	75mA	
Power Dissipation	$P_D$	150mW	
Peak Forward Surge Current @t=1.0us	$I_{FSM}$	4.0A	
@t=1.0ms		1.0A	
@t=1.0s		0.5A	
Maximum Instantaneous Forward Voltage	$V_F$	715mV	$I_F = 1mA$
		855mV	$I_F = 10mA;$
		1000mV	$I_F = 50mA$
		1250mV	$I_F = 150mA$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	2 $\mu$ A	$V_R=75Volts$
		0.03 $\mu$ A	$V_R=25Volts$
Typical Total Capacitance	$C_T$	1.5pF	Measured at 1.0MHz, $V_R=0V$
Reverse Recovery Time	$T_{rr}$	4nS	$I_F = I_R = 10mA,$ $I_{rr} = 0.1 \times I_R,$ $R_L = 100\Omega$

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.030	.033	0.75	0.85	
C	.057	.069	1.45	1.75	
D	.020 Nominal		0.50Nominal		
E	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
H	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	

# BAS16T/BAW56T BAV70T/BAV99T

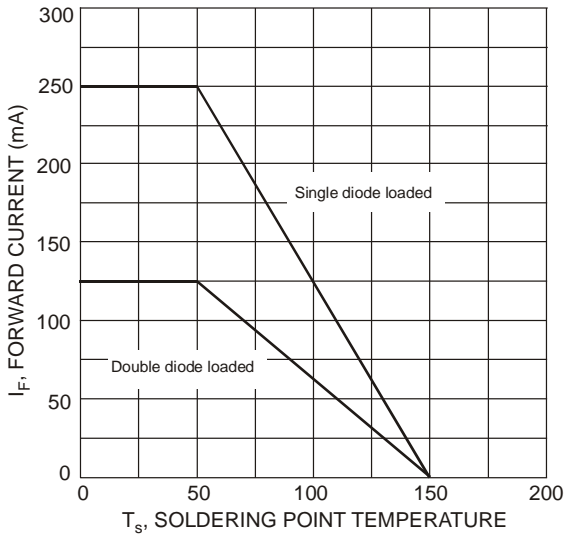


Fig. 1 Current Derating Curve

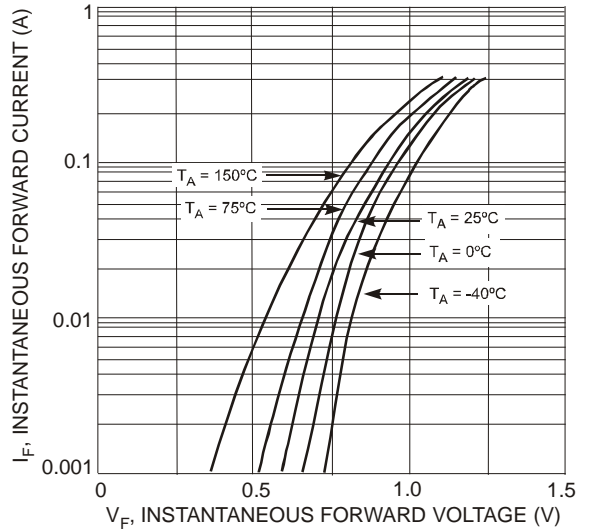


Fig. 2 Forward Characteristics

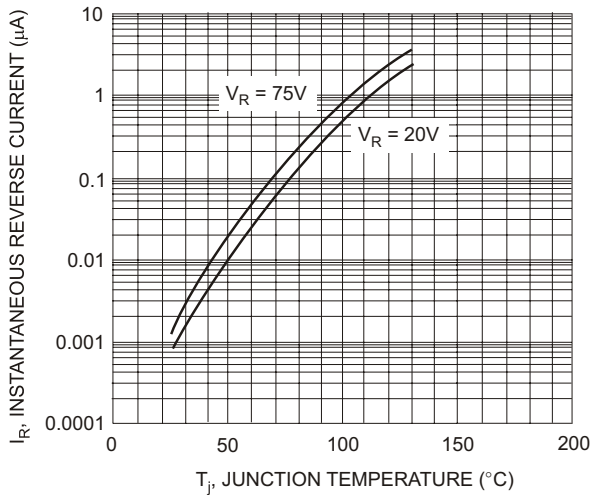


Fig. 3, Typical Reverse Characteristics

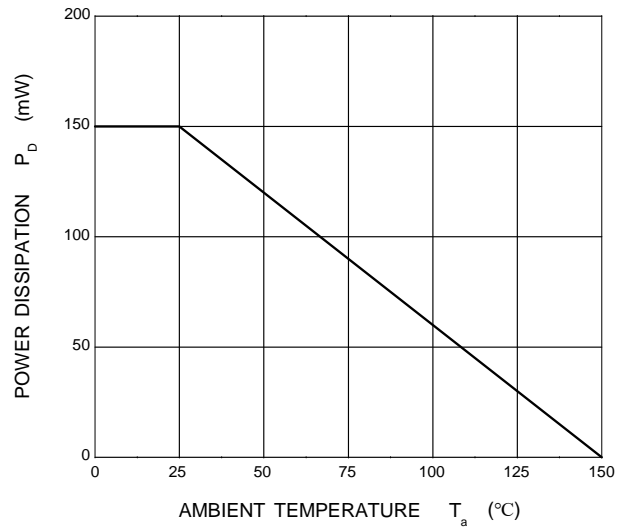


Fig. 4 Power Derating Curve

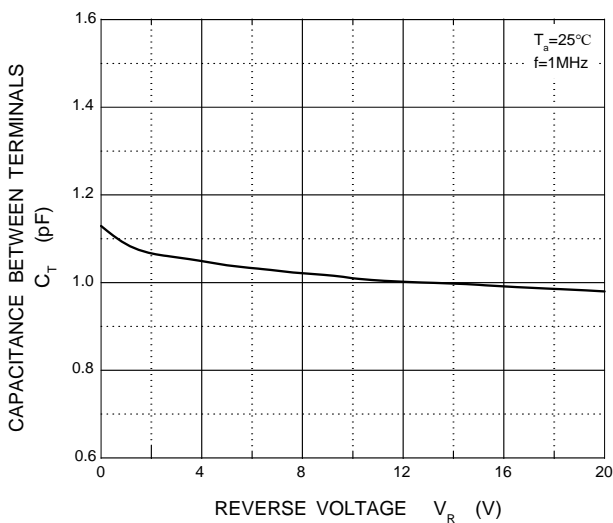


Fig. 5 Capacitance Characteristics



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### 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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