



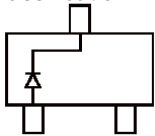
Micro Commercial Components™  
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# BAS21T

## 150mW 250 Volt Switching Diode

### Features

- Ultra-Small Surface Mount Package
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

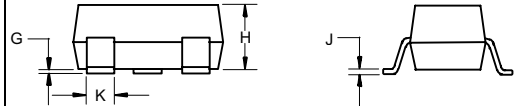
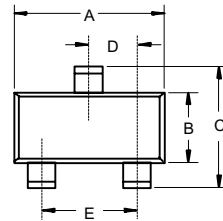


Marking : T3

### Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

### SOT-523



### Electrical Characteristics @ 25°C Unless Otherwise Specified

Peak Repetitive Reverse Voltage	$V_{RRM}$	250V	
Average Rectified Output Current	$I_o$	200mA	
Power Dissipation	$P_D$	150mW	
Peak Forward Surge Current @t=1.0us @t=1.0s	$I_{FSM}$	2.5A 0.5A	
Maximum Instantaneous Forward Voltage	$V_F$	1V 1.25V	IF=100mA IF=200mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	100nA	$V_R=250$ Volts
Typical Total Capacitance	$C_T$	5pF	Measured at 1.0MHz, $V_R=0$ V
Reverse Recovery Time	$T_{rr}$	50nS	IF = IR = 30mA, Irr = 0.1 x IR, RL = 100Ω

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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	

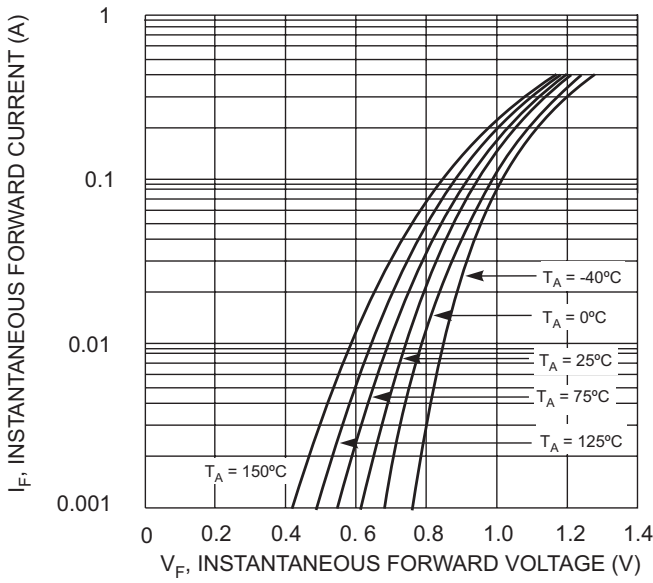


Fig. 1 Typical Forward Characteristics

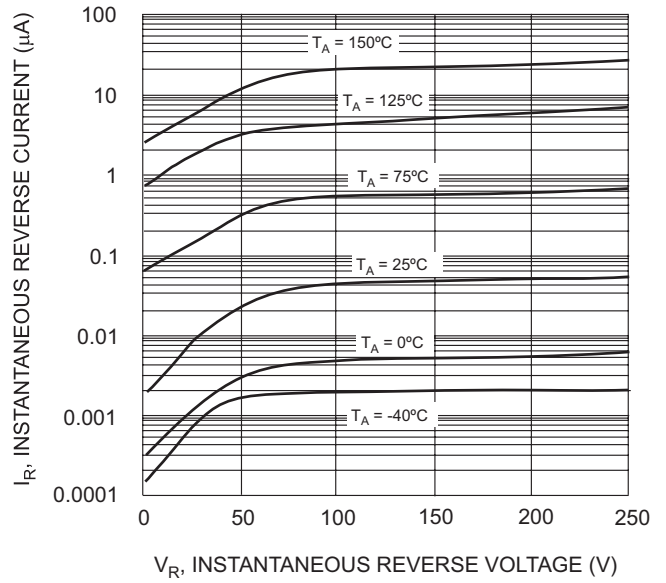


Fig. 2 Typical Reverse Characteristics

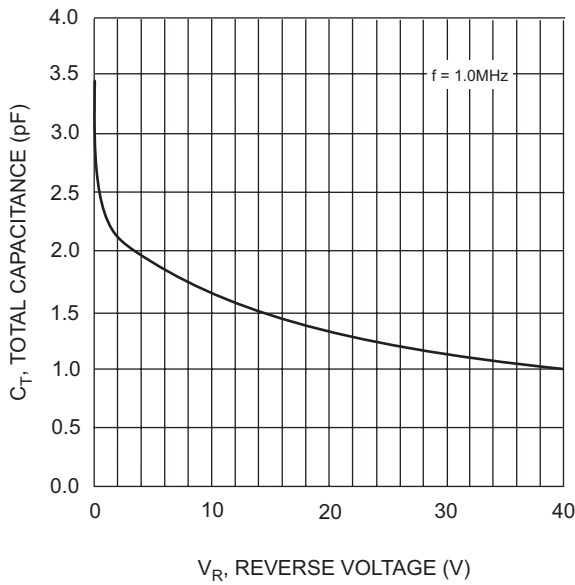


Fig. 3 Typical Capacitance vs. Reverse Voltage

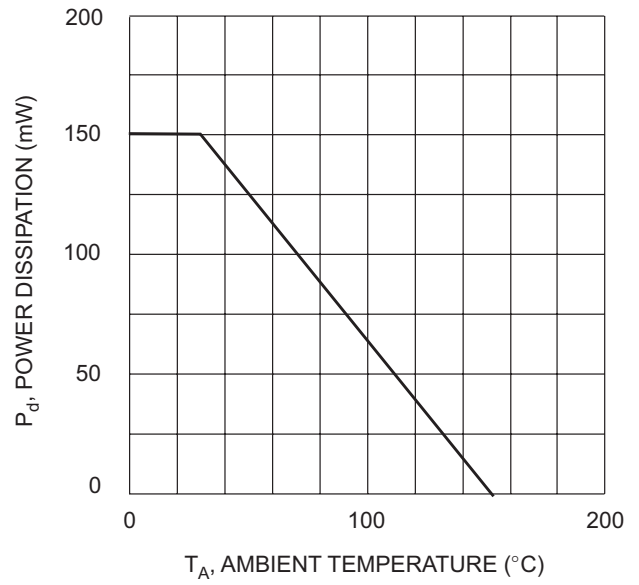


Fig. 4 Power Derating Curve, Total Package



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## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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